PRELIMS 2024 How I predicted more than 60 Qs

Santosh Sir
All 6 Prelims Qualified
4 Mains Qualified
State PCS Qualified
Ex Deputy Collector

UNION PUBLIC SERVICE COMMISSION MARKSHEET

Ci	vil Services (PRELIMINARY) Examination , 2017			
Roll Number	0390455			
Name	SANTOSH PANDEY			
	Marks Obtained			
Paper I	138.66			
Paper II	106.68			

REMARKS: QUALIFIED FOR CS(MAIN) EXAMINATION, 2017

Current Time & Date :-09:28:25 AM (Tue,6th Jun, 2017)

UNION PUBLIC SERVICE COMMISSION MARKSHEET

Ci	ivil Services (PRELIMINARY) Examination, 2016	
Roll Number	0029983	
Name	SANTOSH PANDEY	
	Marks Obtained	
Paper I	144.66	
Paper II	107.50	

REMARKS: QUALIFIED FOR CS(MAIN) EXAMINATION, 2016

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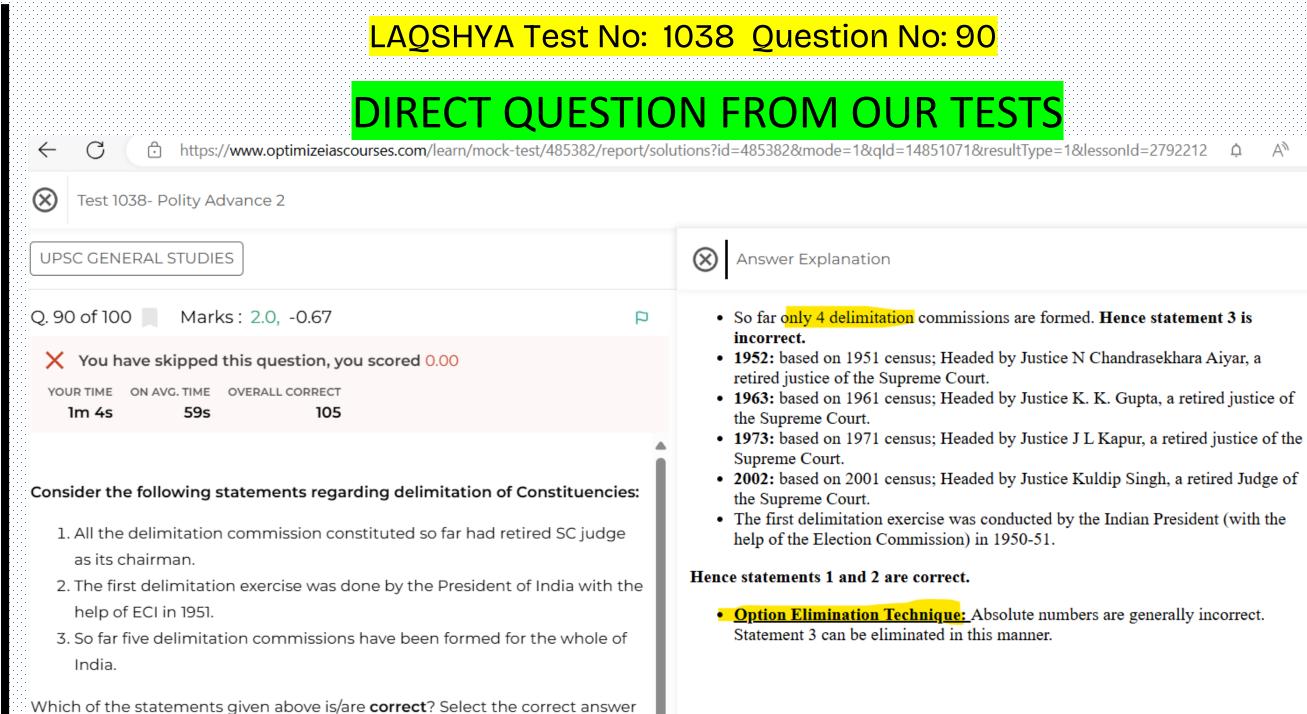
(A) 1 and 2 only

B 2 and 3 only

OPTIMIZE IAS QUESTION

Question No 1

- How many Delimitation Commissions have been constituted by the Government of India
 - One
 - Two
 - Three
 - Four



Have asked question on Delimitation Commission 7 times in our various tests viz Static, Monthly Current Affairs, Optima Tests



Delimitation Commission

Purpose

Redraw borders of assembly and Lok Sabha constituencies based on recent census, ensuring near-equal voter representation.

About

- Constituted Under:
 - Provisions of the Delimitation Commission Act.
- Representation:
 - Seats for SC and ST adjusted based on census, while representation from each state remains constant.

Delimitation Process

- Involves redrawing boundaries of constituencies.
- Ensures each constituency has a nearly equal number of voters.
- Aims for fair representation and geographical division.

Details

- Last Delimitation Exercise:
 - Occurred in 1976 based on the 1971 Census.
- Freeze on Delimitation:
 - Constitutional amendment in 2002 froze delimitation exercise until the first Census after 2026.
 - Delimitation Commissions have been set up four times — 1952, 1963, 1973 and 2002 under the Acts of 1952, 1962, 1972 and 2002.

Constitutional Provisions:

- Lok Sabha:
 - Article 82 empowers Parliament to enact Delimitation Act after every Census.
- State Assemblies:
 - Article 170 divides states into territorial constituencies as per Delimitation Act after every Census.

Santosh Sir

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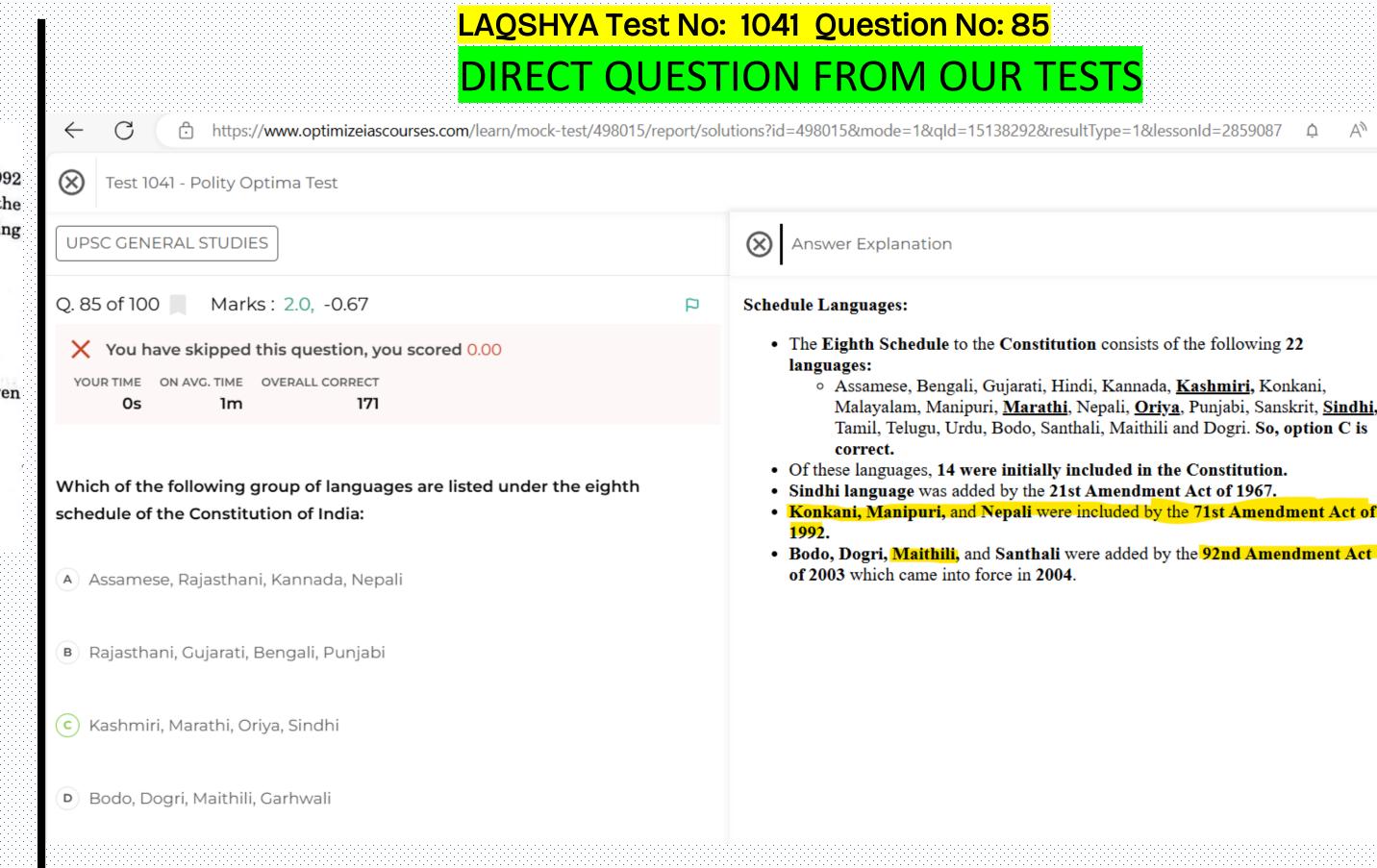
OPTIMIZE IAS QUESTION

Question No 2

- 2. The Constitution (71st Amendment) Act, 1992 amends the Eighth Schedule to the Constitution to include which of the following languages?
 - Konkani
 - Manipuri
 - Nepali
 - 4. Maithili

Select the correct answer using the code given below:

- (a) 1, 2 and 3
- (b) 1, 2 and 4
- (c) 1, 3 and 4
- (d) 2, 3 and 4





SCHEDULES OF INDIAN CONSTITUTION

Schedules	Provisions
First Schedule	 The states and territories of India Change in the territory of a state/UT or formation of a new state/UT or merger of states/UTs 7th Constitutional Amendment 1956 with the formation of Andhra Pradesh state.
Second Schedule	 The constitutional office's provisions in relation to allowances, privileges, and emoluments of: President, Speaker of Lok Sabha & Deputy Speaker, Chairman & Deputy Chairman of Rajya Sabha, Speaker and Deputy Speaker of Legislative Assemblies, Chairman and Deputy Chairman of Legislative Councils, Supreme Court, Judges High Court, Judges Comptroller & Auditor General of India (CAG)
Third Schedule	 Oath and affirmation Union Ministers of India, Members of Parliament, Supreme Court Judges, Comptroller and Auditor General, State Ministers, Members High Court Judges
Fourth Schedule	The allocation of Rajya Sabha seats to States or Union Territories.
Fifth Schedule	 Administration and control of Scheduled Areas and Scheduled Tribes. Scheduled Tribes are groups of indigenous people, identified in the Constitution, struggling socio-economically
Sixth Schedule	 Administration of tribal areas in Assam, Meghalaya, Tripura, and Mizoram. To protect the rights of tribal people, the Sixth Schedule allows the formation of Autonomous District Councils Articles 244(2) and 275(1) of the Indian Constitution
Seventh Schedule	 Defines and specifies the allocation of powers and functions between Union & States. It contains three lists; i.e. 1) Union List, 2) State List and 3) Concurrent List.
Eighth Schedule	 The official language of the Republic of India. Part XVII-the official languages in Articles 343 to 351. 22 languages: Assamese, Bengali, Gujarati, Hindi, Kannada, Kashmiri, Konkani, Malayalam, Manipuri, Marathi, Nepali, Oriya, Punjabi, Sanskrit, Sindhi, Tamil, Telugu, Urdu, Bodo, Santhali, Maithili and Dogri. 14 were initially included in the Constitution. The Sindhi language was added by the 21st Amendment Act of 1967. Konkani, Manipuri, and Nepali were included in the 71st Amendment Act of 1992. Bodo, Dogri, Maithili, and Santhali were added by the 92nd Amendment Act of 2003 which came into force in 2004.
Ninth Schedule	 State laws and regulations relating to land reform and the dismantling of the zamindari system.
Tenth Schedule	 Anti defection law was introduced by the 52nd constitutional amendment act 1985 To prevent the defections from one political party to another in lieu of certain gains by members of parliament and state legislatures, it led to the introduction of the 10th schedule. 91st constitutional amendment act 2003.
Eleventh Schedule	 Provisions that specify the Panchayats' powers, authority, and responsibilities in order for them to function as local governments. 73rd Amendment Act of 1992 added a schedule. State legislatures are required to enact laws granting Panchayats powers and authority in order for them to perform local government functions.
Twelfth Schedule	Define the Municipalities' powers, authority, and responsibilities in order for them to function as local governments.

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UPSC PRELIMS 2025

PRACTICE MOST IMPORTANT
QUESTIONS PREDICTED BY

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REMARKS: QUALIFIED FOR CS(MAIN) EXAMINATION, 2016

UNION PUBLIC SERVICE COMMISSION MARKSHEET

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Paper II	106.68	

REMARKS: QUALIFIED FOR CS(MAIN) EXAMINATION, 201

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Question No 4

Which of the following statements are correct about the Constitution of India?

- 1. Powers of the Municipalities are given in Part IX A of the Constitution.
- 2. Emergency provisions are given in Part XVIII of the Constitution.
- Provisions related to the amendment of the Constitution are given in Part XX of the Constitution.

Select the answer using the code given below:

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3



OPTIMIZE IAS QUESTION

DIRECT QUESTION FROM OPTIMA CARDS



59

30TH ANNIVERSARY OF PANCHAYATI RAJ

- Enacted in 1992 through Constitution 73rd and 74th Amendment Acts.
- Expression of Article 40, Directive Principle of State Policy, organizing village panchayats.

Historical Background:	Post-Independence Efforts:
 Ancient democratic institutions in India. British efforts in municipal government from 1773. Lord Ripon's resolution of 1881 emphasized local self-government principles. 	 Panchayat Raj not initially in the Constitution. Article 40 inserted in the Directive Principles by M.K. Gandhi's efforts. Various committees proposed democratization of local governance.

Constitutional Amendments (1992):

- Added Parts IX and IXA for Panchayats and Municipalities.
- Transferred 29 subjects to Panchayats and 18 to Municipalities.
- Three-tier Panchayat Raj Institutions (PRIs) for rural governance.
- Establishment of 'Gram Sabha' at the village level comprising of persons registered in the electoral rolls relating to a village comprised within the area of Panchayat(Article 243(b)).
- Establishment of a three-tier system of Panchayat, at the village, intermediate and
 district levels, in all the States and Union Territories (UTs) except in those having a
 population of less than twenty lakhs where Panchayats at intermediate level need not be
 constituted.
- The chairperson of a Panchayat at the intermediate and district level shall be elected from among the directly elected members representing the territorial constituencies.
- Reservation of seats for SCs/STs in proportion to their population in the Panchayat area and seats may be allotted by rotation
- One-third of the total number of seats, both in reserved and unreserved categories shall be set apart for women in every Panchayat and seats may be allotted by rotation.
- The chairperson of each level of Panchayats shall be reserved for SCs/STs in proportion to their population on rotation basis. Similarly, one-third post of chairpersons of each level of Panchayats shall be reserved for women on rotation basis.
- A fixed tenure of five years for Panchayats from the data appointed for its first meeting
 and the tenure cannot be extended. However, if a Panchayat is dissolved before the expiry
 of its term, election is to conducted within a period of six months of the dissolution to
 reconstitute the Panchayat for the remainder of the terms of the term provided the
 remainder of the period is not less than six months. The Panchayats shall be constituted
 before the expiry of its tenure of five years.

Exemptions and Special Provisions:

- Exemptions for Nagaland, Mizoram, Meghalaya, hill areas of Manipur, Darjeeling, and scheduled/tribal areas.
- Article 371A and 371G provide exclusive powers in Nagaland and Mizoram.
- Similar arrangements in Sixth Schedule Areas of Assam, Meghalaya, Tripura, and Mizoram.

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OPTIMIZE IAS QUESTION

Question No 4

Which of the following statements are correct about the Constitution of India?

- 1. Powers of the Municipalities are given in Part IX A of the Constitution.
- Emergency provisions are given in Part XVIII of the Constitution.
- Provisions related to the amendment of the Constitution are given in Part XX of the Constitution.

Select the answer using the code given below:

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

DIRECT QUESTION FROM OUR NOTES

THE LD

The National Capital Territory of Delhi (Amendment) Ordinance, 2023

- Key Highlights of the Ordinance
 - Creation of National Capital Civil Service Authority (NCCSA)
 - NCCSA will be headed by the Chief Minister of Delhi, with the Chief Secretary and Principal Home Secreta
 of Delhi being the other two members.
 - The NCCSA will make recommendations to the LG regarding transfer, posting, vigilance and other inciden matters.
- Role of Lieutenant Governor (L-G)
 - The ordinance stated that the L-G will pass orders to give effect to the recommendations passed by t NCCSA.
 - However, L-G can ask for the relevant material about officers belonging to All India Services and DANIC serving the Delhi government.
 - In case the L-G differs with the recommendation made, he/she may return the recommendation to t
 Authority for reconsideration by the Authority.

Article 123 cannot be used as a substitute for Article 368

- Article 239AA(7)(b) stipulates that Parliament's law making under Article 239AA(7)(a) shall not be deemed to be amendment of the Constitution for the purposes of Article 368.
- No such clause has been stipulated in Article 239AA(3)(a).
- Therefore, altering the scope of Article 239AA(3)(a) requires constitutional amendment under Article 368.
- Article 123 cannot act as a substitute for Article 368 (Amendment of the Constitution) in Part XX.



OPTIMIZE IAS QUESTION

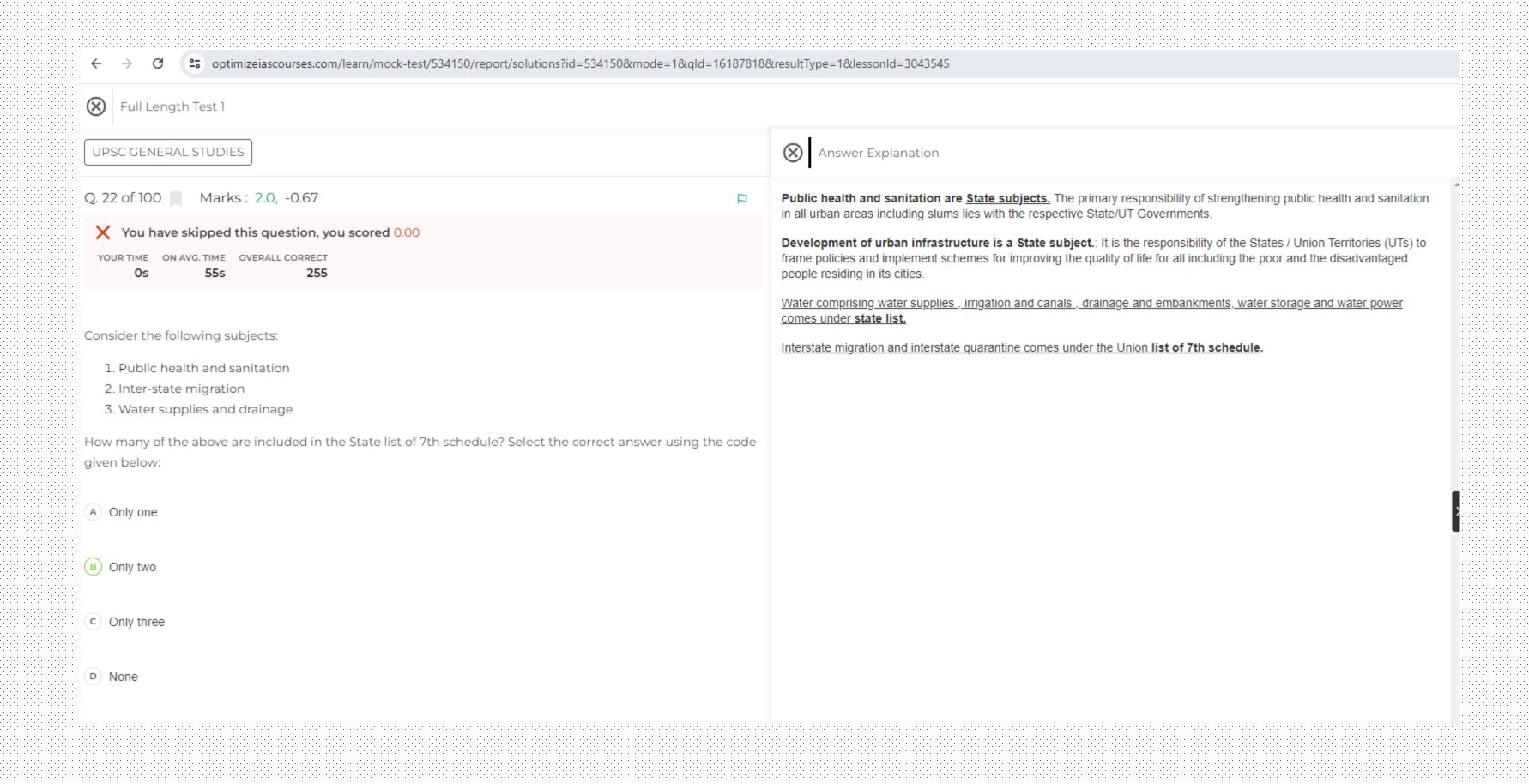
Question No.5

- 5. Which one of the following statements is correct as per the Constitution of India?
 - (a) Inter-State trade and commerce is a State subject under the State List.
 - (b) Inter-State migration is a State subject under the State List.
 - (c) Inter-State quarantine is a Union subject under the Union List.
 - (d) Corporation tax is a State subject under the State List.

LAQSHYA FLT 1 Question No: 22

DIRECT QUESTION FROM OUR TESTS

← → C optimizeiascourses.com/learn/mock-test/534150/report/solutions?id=534150&mode=1&qld=16187818&resultType=1&lessonId=3043545
Full Length Test 1
UPSC GENERAL STUDIES
Q. 22 of 100 Marks: 2.0, -0.67
X You have skipped this question, you scored 0.00
Consider the following subjects:
1. Public health and sanitation
2. Inter-state migration
3. Water supplies and drainage
How many of the above are included in the State list of 7th schedule? Select the correct answer using the code given below:
A Only one
B Only two
Contraction of the contraction o
© Only three
D None





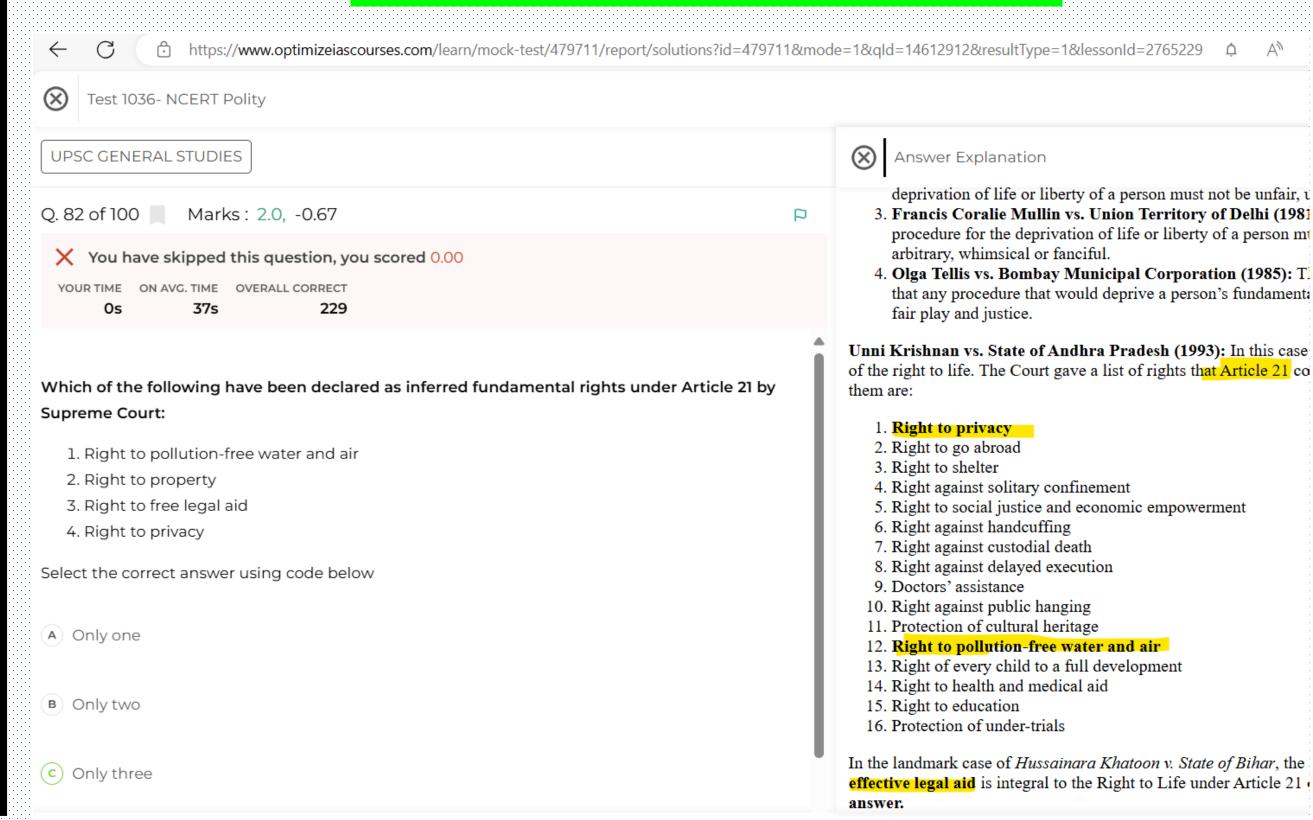
OPTIMIZE IAS QUESTION

Question No 6

- 6. Under which of the following Articles of the Constitution of India, has the Supreme Court of India placed the Right to Privacy?
 - (a) Article 15
 - (b) Article 16
 - (c) Article 19
 - (d) Article 21



DIRECT QUESTION FROM OUR TESTS



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- NCERT BOOK TEST 10
- ADVANCE BOOK TEST 15
- MONTHLY CURRENT AFFAIRS TEST 15
- ENTIRE YEAR IMP QUESTION TEST (SUBJECT-WISE) 8
- OPTIMA FULL LENGTH STIMULATED TEST 7
- CSAT FULL LENGTH TEST 10
- WEEKLY CURRENT AFFAIRS SESSION 100 HRS
- STATIC MAP SESSIONS 50 HRS
- TOTAL NO. OF TEST 65



ALL TESTS ARE ONLINE ONLY (English Medium), No Test PDF's Will be Provided.



OPTIMIZE IAS QUESTION

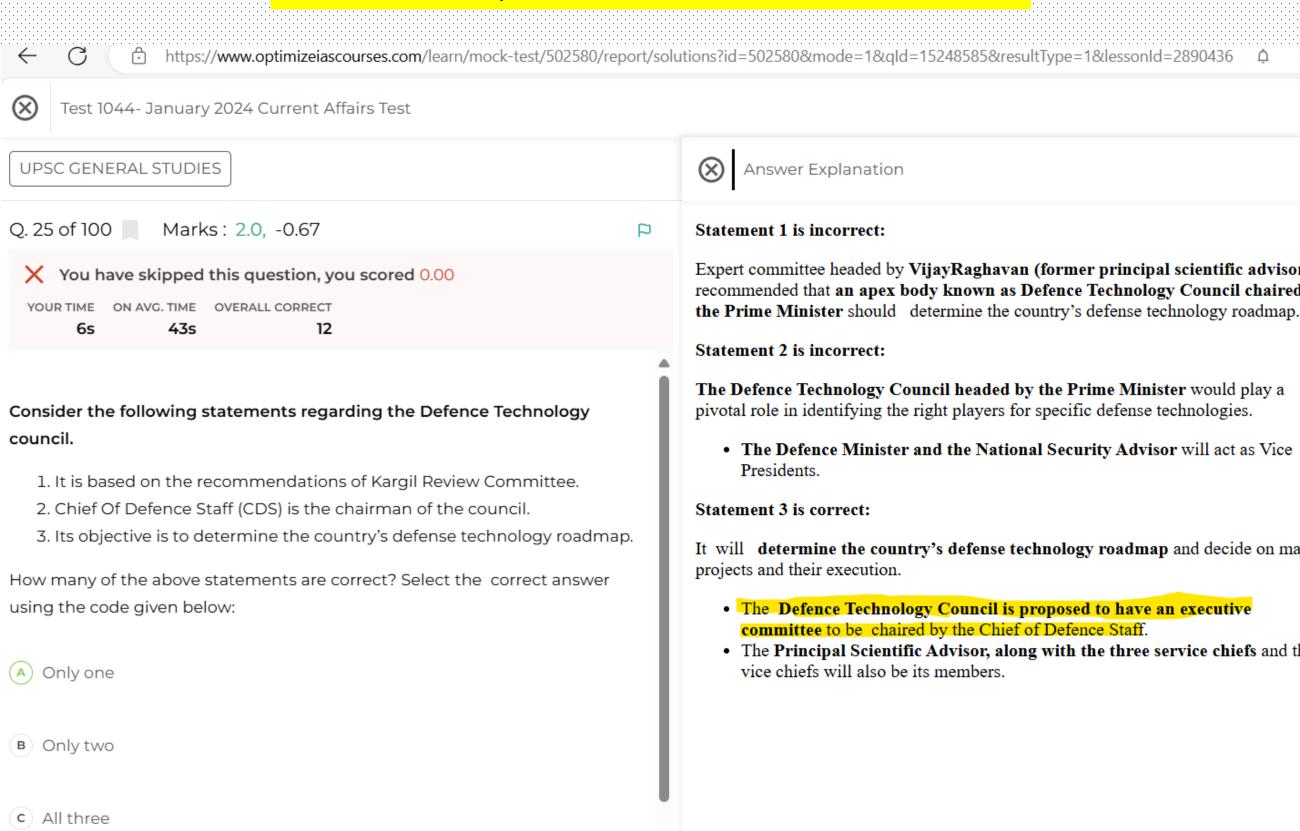
Question No 7

- What are the duties of the Chief of Defence Staff (CDS) as Head of the Department of
 - Permanent Chairman of Chiefs of Staff Committee
 - Exercise military command over the three Service Chiefs
 - Principal Military Advisor to Defence Minister on all tri-service matters

Select the correct answer using the code given

was the state of the s

- 1, 2 and 3
- 1 and 2 only
- 2 and 3 only
- 1 and 3 only



LAQSHYA Test No: 1044 Question No: 25

In DIRECT QUESTION FROM OUR TESTS

Answer Explanation Statement 1 is incorrect: Expert committee headed by VijayRaghavan (former principal scientific advisor) recommended that an apex body known as Defence Technology Council chaired by

Statement 2 is incorrect:

The Defence Technology Council headed by the Prime Minister would play a pivotal role in identifying the right players for specific defense technologies.

 The Defence Minister and the National Security Advisor will act as Vice Presidents.

Statement 3 is correct:

It will determine the country's defense technology roadmap and decide on major projects and their execution.

- The Defence Technology Council is proposed to have an executive committee to be chaired by the Chief of Defence Staff.
- · The Principal Scientific Advisor, along with the three service chiefs and their vice chiefs will also be its members.



OPTIMIZE IAS QUESTION

Question No 8

Operations undertaken by the Army towards upliftment of the local population in remote areas to include addressing of their basic needs is called:

- Operation Sankalp
- Operation Maitri
- Operation Sadbhavana
- **Operation Madad**

IN-DIRECT QUESTION FROM OUR OPTIMA CARDS





Operations In the News

-			
Operation Name	Year	Reason for Evacuation	
Operation Ajay	2023	Israel-Hamas war	
Operation Dost	2023	Turkey-Syria earthquake	
Operation Kaveri	2023	Evacuation of nationals from Sudan	
Operation Ganga	2022	Tensions between Russia and Ukraine	
Vande Bharat	2020	Covid-19 pandemic	
Operation Samudra Setu	2020	Covid-19 pandemic	
Evacuation from Brussels	2016	Terrorist strikes	
Operation Raahat	2015	Conflict in Yemen	
Operation Maitri	2015	Nepal earthquake	
Operation Safe Homecoming	2011	Conflict in Libya	
Operation Sukoon	2006	Conflict in Lebanon	
1990 Kuwait Airlift	1990	Invasion of Kuwait by Iraq	

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OPTIMIZE IAS QUESTION

Question No 9

The longest border between any two countries in the world is between:

- (a) Canada and the United States of America
- (b) Chile and Argentina
- (c) China and India
- (d) Kazakhstan and Russian Federation

IN-DIRECT QUESTION FROM PPP

7. Consider the following pairs

Border Countries

1. 49th Parallel USA -Mexico

2. 22th Parallel Egypt -Sudan

3. 38th Parallel North Korea - South Korea

How many of the above pairs are correctly matched?

- a) Only one
- b) Only two
- c) All three
- d) None



OPTIMIZE IAS QUESTION

LAQSHYA Test No: FLT3 Question No: 8

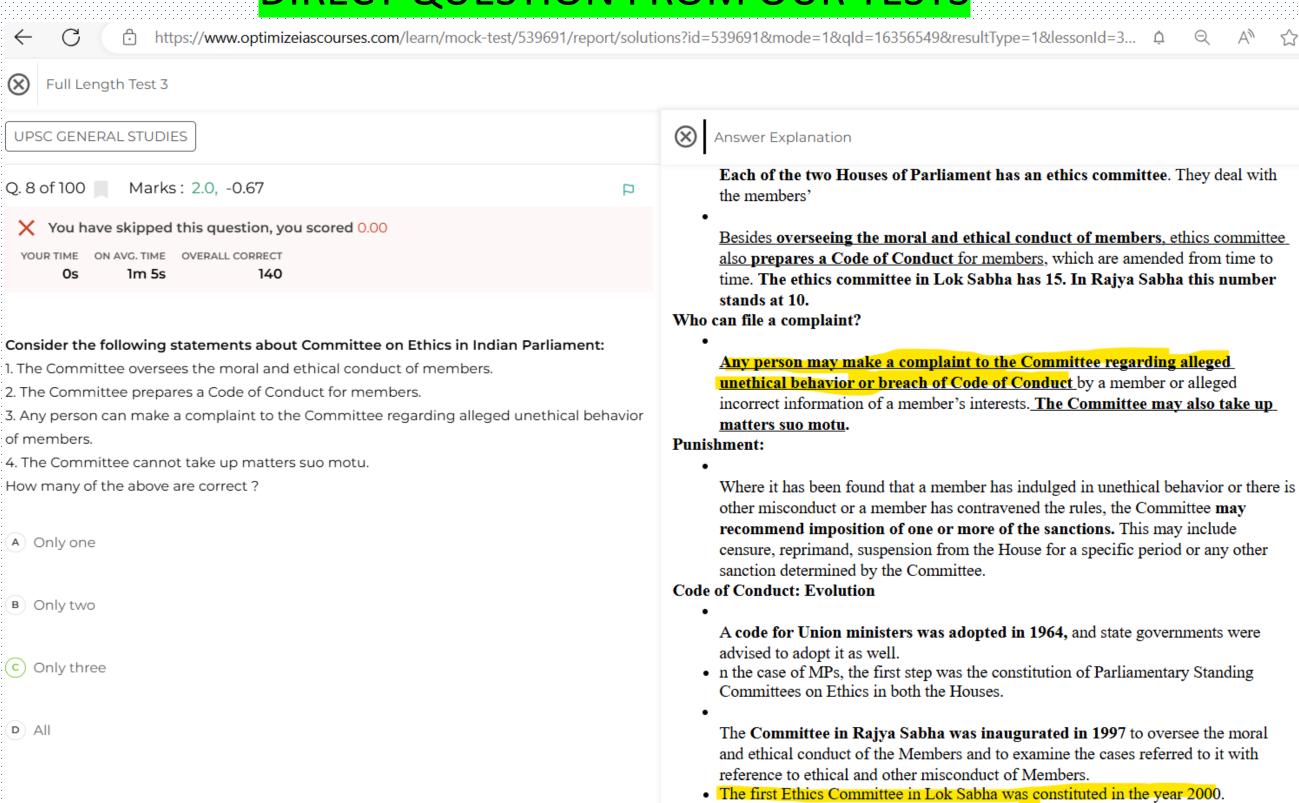
Question No 10

- Which of the following statements about the Ethics Committee in the Lok Sabha are correct?
 - Initially it was an ad-hoc Committee.
 - Only a Member of the Lok Sabha can make a complaint relating to unethical conduct of a member of the Lok Sabha.
 - This Committee cannot take up any matter which is sub-judice.

Select the answer using the code given below:

- 1 and 2 only
- 2 and 3 only
- 1 and 3 only

DIRECT QUESTION FROM OUR TESTS



Have asked question on Ethics Committee 3 times in our various tests viz Static, Monthly Current Affairs, Optima Tests



Cash-For-Query Case

HOW SERIOUS IS NISHIKANT DUBEY'S ACCUSATION:

- An MP asking questions in return for consideration undermines parliamentary integrity.
- The matter, if established, should be referred to the Privileges Committee.
- Privileges Committee may recommend expulsion from the House.
- Relevant to all countries with a parliamentary system.

WAS AN MP PREVIOUSLY ACCUSED OF GRANTING ACCESS TO PARLIAMENT WEBSITE:

- No, the system is recent.
- Lok Sabha rules require a signed question submission.
- Questions can be delivered by someone on the Member's behalf but must be signed.
- Rule barring Members from sharing login and password:
 - No specific rule as online submissions are recent.
 - Rule should have been amended with the introduction of online submissions.

COMMITTEE PROCEEDINGS:

- Committee will call involved persons, stakeholders, and the accused MP.
- Accused MP has the right to cross-examine the complainant.
- The accused can seek permission to appear through an advocate.

COMMITTEE'S DECISION AND MAXIMUM RECOMMENDED PUNISHMENT:

- Committee's duration depends on the case complexity.
- Normal course is two months, extendable if needed.
- Ethics Committee can recommend suspension but not refer to investigative agencies.

ETHICS COMMITTEE:

- Each House has an ethics committee.
- Deals with moral conduct and prepares a Code of Conduct.
- Lok Sabha's committee has 15 members; Rajya Sabha has 10.
- Members appointed by the Speaker for one year.

HISTORY

- Idea first mooted in 1996.
- Ethics Committee in Rajya Sabha constituted in 1997.
- Rules applicable to Committee of Privileges also apply to the ethics panel.
- Lok Sabha's Ethics Committee formed in 2015 after recommendations in the 13th Lok Sabha.

WHO CAN FILE A COMPLAINT:

- Any person can file a complaint regarding unethical behavior or breach of Code of Conduct.
- The Committee may also take up matters suo moto.

PUNISHMENT BY THE COMMITTEE:

 If found guilty, the Committee may recommend censure, reprimand, suspension, or other sanctions.



OPTIMIZE IAS QUESTION

Question No 12

- 12. With reference to the Government of India Act, 1935, consider the following statements:
- It provided for the establishment of an All India Federation based on the union of the British Indian Provinces and Princely States.
 - Defence and Foreign Affairs were kept under the control of the federal legislature.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

LAQSHYA Test No: 1025 Question No: 94

DIRECT QUESTION FROM OUR TESTS

← C https://www.optimizeiascourses.com/learn/mock-test/454053/report/soluti	ons?id=454053&mode=1&qld=14010034&resultType=1&lessonId=2 ♀ ♀ A ☆
Test 1025 - NCERT Modern India	
UPSC GENERAL STUDIES	Answer Explanation
Q. 94 of 100 Marks: 2.0, -0.67 You have skipped this question, you scored 0.00 YOUR TIME ON AVG. TIME OVERALL CORRECT OS 34s 113	Statement 1 is correct as the act proposed Provincial autonomy, under which elected ministers controlled all the provincial departments. Statement 2 is incorrect since the Act proposed for the establishment of an All-India Federation on the Union of British Indian Provinces and the Princely States.
Consider the following statements regarding Government of India Act,1935: 1. It proposed Provincial autonomy. 2. The Act proposed the establishment of an All-India Federation excluding the Princely	
States. Which of the statements given above is/are correct? Select the correct answer using the code below:	
A 1 only	
B 2 only	
© Both 1 and 2	
D Neither 1 nor 2	



OPTIMIZE IAS QUESTION

LAQSHYA Test No: 1042 Question No: 4

Answer Explanation

Question No 15

- Consider the following properties included in the World Heritage List released by UNESCO:
 - Shantiniketan
 - Rani-ki-Vav
 - Sacred Ensembles of the Hoysalas
 - Temple Complex at Mahabodhi Bodhgaya

How many of the above properties were included in 2023?

- Only one
- Only two
- Only three
- All four

DIRECT QUESTION FROM OUR TESTS https://www.optimizeiascourses.com/learn/mock-test/500277/report/solutions?id=500277&mode=1&gld=15171639&resultType=1&lessonId=2... 🛕 Test 1042 - History Optima Test **UPSC GENERAL STUDIES** Q. 4 of 100 Marks: 2.0, -0.67 You have skipped this question, you scored 0.00 YOUR TIME ON AVG. TIME OVERALL CORRECT 1m 7s Consider the following statements: 1. The Sacred Ensembles of the Hoysalas have been given UNESCO World Heritage status. 2. Hoysala temples generally have a stellate plan and multiple shrines. 3. Pattadakkal, Badami and Aihole are the sites of Hoysala temple complexes. 4. Majority of the Hoysala temples were built in the 7th century. How many of the above statements are incorrect? A) Only one (B) Only two c Only three All four

- Statement 1 is correct as the Sacred Ensembles of the Hoysalas have been given the UNESCO World Heritage status in 2023.
- Statement 2 is correct as Hoysala temples evolved a distinct style that is ornate with temple architecture following a stellate plan built on a raised platform.
- Statement 3 is incorrect as Pattadakkal, Badami and Aihole are the sites of Chalukya temples. Belur, Somanathapura and Halebid are the sites of Hoysala temple complexes.
- Statement 4 is incorrect as the majority of the Hoysala temples were built in the 12-13th centuries.

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LAQSHYA Test No: 1042 Question No: 54

DIRECT QUESTION FROM OUR TESTS

⊗ ⊺

Test 1042 - History Optima Test

UPSC GENERAL STUDIES

Q. 54 of 100 Marks: 2.0, -0.67

X You have skipped this question, you scored 0.00

Consider the following statements about Rabindranath Tagore:

- 1. He was the first Asian to win a Nobel Prize in 1913.
- 2. He founded Shantiniketan and Visva-Bharati University which was awarded UNESCO World Heritage status in 2022.
- 3. He was a staunch nationalist and advocated for independence from the British Raj.
- 4. He wrote the national anthems of India, Bangladesh and Sri Lanka.

How many of the above statements are correct?

- (A) Only one
- B) Only two
- (c) Only three
- D All four

Santiniketan makes it to UNESCO World Heritage list

Context:

 Shanti Niketan, the town in West Bengal, was included in the UNESCO World Heritage list during the 45th Session of the World Heritage Committee in Saudi Arabia.

About Shanti Niketan:

- Established in 1901 by the Nobel Laureate Gurudev Rabindra Nath Tagore.
- Location: Birbhum district, West Bengal.
- Current Vice-chancellor of Santiniketan: Bidyut Chakrabarti
- It is the 41st UNESCO World Heritage Site in India and the third in West Bengal, after the Sundarbans National Park and the Darjeeling Mountain Railways.
- Last year (2022), the state's Durga Puja got space in "Intangible Cultural Heritage of humanity" under UNESCO.
- Santiniketan was a residential school and centre for art based on ancient Indian traditions and a vision of the unity
 of humanity transcending religious and cultural boundaries.
- A 'world university' Visva Bharati was established at Santiniketan in 1921.
- Santiniketan was the pioneer of the Bengal School of Art. It exhibits the crystallisation of their ideas of internationalism, humanism, inclusiveness, environmentalism and a pan Asian modernism.

Global art movements parallel to Santiniketan:

Bauhaus:

Founded by architect Walter Gropius in Weimar, the Staatliches Bauhaus, or Bauhaus (German for 'building house'), was a German art school operational from 1919 to 1933 that combined crafts and the fine arts.

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OPTIMIZE IAS QUESTION

Question No 15

- 15. Consider the following properties included in the World Heritage List released by UNESCO:
 - 1. Shantiniketan
 - 2. Rani-ki-Vav
 - 3. Sacred Ensembles of the Hoysalas
 - 4. Mahabodhi Temple Complex at Bodhgaya

How many of the above properties were included in 2023?

- (a) Only one
- (b) Only two
- (c) Only three
- (d) All four

LAQSHYA Test No: 1042 Question No: 88

DIRECT QUESTION FROM OUR TESTS

← C https://www.optimizeiascourses.com/learn/mock-test/500277/report/solu	utions?id=500277&mode=1&qld=15216456&resultType=1&lessonId=2 ↓ ♀ A ☆
Test 1042 - History Optima Test	
UPSC GENERAL STUDIES	Answer Explanation
Q. 88 of 100 Marks: 2.0, -0.67 You have skipped this question, you scored 0.00	About Shantiniketan: Established in 1901 by the Nobel Laureate Gurudev Rabindra Nath Tagore. He got the nobel prize for Geetanjali in 1913. So, statement 2 is incorrect.
Consider the following statements about "Shantiniketan": 1. It was established to curb the influence of western cultures on Indian culture and protect the sanctity of ancient Indian art and culture. 2. It was established by Rabindra Nath Tagore after winning the nobel prize for his work Geetanjali. 3. It is the third UNESCO World Heritage site in West Bengal. How many of the above statement/s is/are correct? Select the correct answer using the code given below: A Only one B Only two C All three	 Location: Birbhum district, West Bengal. Current Vice-chancellor of Santiniketan: Bidyut Chakrabarti It is the 41st UNESCO World Heritage Site in India and the third in West Bengal, after the Sundarbans National Park and the Darjeeling Mountain Railways. So, statement 3 is correct. Last year (2022), the state's Durga Puja got space in "Intangible Cultural Heritage of humanity" under UNESCO. Santiniketan was a residential school and center for art based on ancient Indian traditions and a vision of the unity of humanity transcending religious and cultural boundaries. So, statement 1 is incorrect. A 'world university' – Visva Bharati – was established at Santiniketan in 1921. Tagore conceived a new type of university: he sought to "make Santiniketan the connecting thread between India and the world [and] a world center for the study of humanity somewhere beyond the limits of nation and geography. Santiniketan was the pioneer of the Bengal School of Art. It exhibits the crystallization of their ideas of internationalism, humanism, inclusiveness, environmentalism and a pan Asian modernism.



OPTIMIZE IAS QUESTION

Question No 16

- 16. As per Article 368 of the Constitution of India, the Parliament may amend any provision of the Constitution by way of:
 - . Addition
 - Variation
 - Repeal

Select the correct answer using the code given below:

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

IN-DIRECT QUESTION FROM OPTIMA CARDS





Evolution of Basic Structure Doctrine

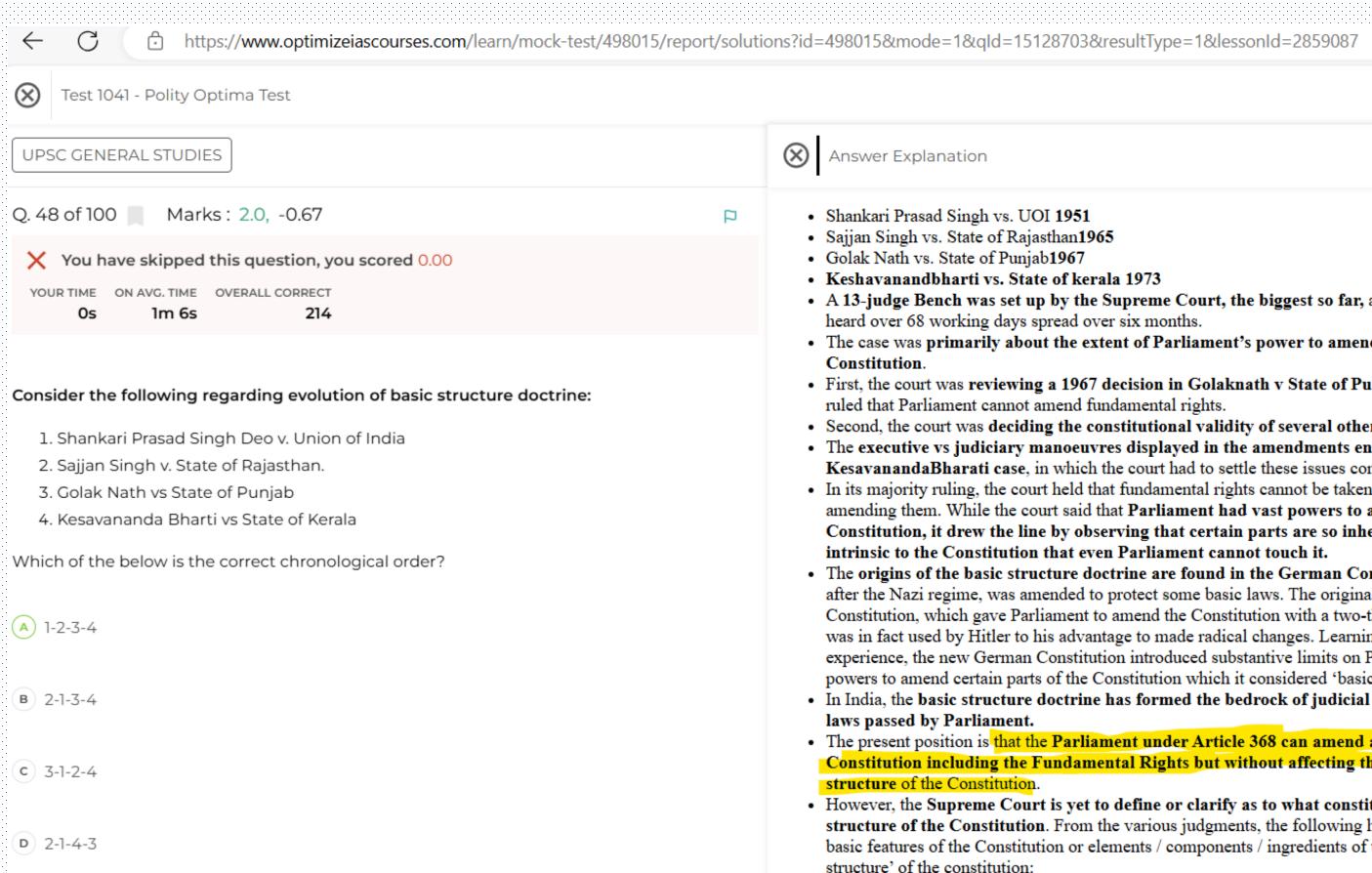


Imp Constitution Article 13 and 368

- The Supreme Court has ruled that all provisions of the Constitution, including fundamental rights, can be amended, but that Parliament cannot alter the basic structure of the constitution.
- This doctrine has served as a check on the power of the Parliament to amend the Constitution and has ensured that the Constitution remains a living document that is responsive to changing times while preserving its fundamental values and principles.
- All laws placed in the Ninth Schedule after the date of the Kesavananda Bharati judgement were also open to review in the courts.

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Answer Explanation

- Shankari Prasad Singh vs. UOI 1951
- · Sajjan Singh vs. State of Rajasthan1965
- · Golak Nath vs. State of Punjab1967
- Keshavanandbharti vs. State of kerala 1973
- A 13-judge Bench was set up by the Supreme Court, the biggest so far, and the case was heard over 68 working days spread over six months.
- The case was primarily about the extent of Parliament's power to amend the Constitution.
- · First, the court was reviewing a 1967 decision in Golaknath v State of Punjab which, had ruled that Parliament cannot amend fundamental rights.
- · Second, the court was deciding the constitutional validity of several other amendments.
- The executive vs judiciary manoeuvres displayed in the amendments ended with the KesavanandaBharati case, in which the court had to settle these issues conclusively.
- . In its majority ruling, the court held that fundamental rights cannot be taken away by amending them. While the court said that Parliament had vast powers to amend the Constitution, it drew the line by observing that certain parts are so inherent and intrinsic to the Constitution that even Parliament cannot touch it.
- The origins of the basic structure doctrine are found in the German Constitution which. after the Nazi regime, was amended to protect some basic laws. The original Weimar Constitution, which gave Parliament to amend the Constitution with a two-thirds majority, was in fact used by Hitler to his advantage to made radical changes. Learning from that experience, the new German Constitution introduced substantive limits on Parliament's powers to amend certain parts of the Constitution which it considered 'basic law'.
- · In India, the basic structure doctrine has formed the bedrock of judicial review of all laws passed by Parliament.
- The present position is that the Parliament under Article 368 can amend any part of the Constitution including the Fundamental Rights but without affecting the basic structure of the Constitution.
- · However, the Supreme Court is yet to define or clarify as to what constitutes the basic structure of the Constitution. From the various judgments, the following have emerged as basic features of the Constitution or elements / components / ingredients of the 'basic structure' of the constitution:
 - Supremacy of the Constitution
 - Sovereign, democratic and republican nature of the Indian polity



OPTIMIZE IAS QUESTION

Question No 18

- Which of the following statements are correct in respect of a Money Bill in the Parliament?
 - Article 109 mentions special procedure in respect of Money Bills.
 - A Money Bill shall not be introduced in the Council of States.
 - The Rajya Sabha can either approve the Bill or suggest changes but cannot reject it.
 - Amendments to a Money Bill suggested by the Rajya Sabha have to be accepted by the Lok Sabha.

Select the answer using the code given below:

All of the above

- 1 and 2 only
- 2 and 3 only
- 1, 2 and 3
- 1, 3 and 4



LAQSHYA Test No: 1037 Question No: 5

DIRECT QUESTION FROM OUR TESTS

← C https://www.optimizeiascourses.com/learn/mock-test/481800/report/solu	tions?id=481800&mode=1&qld=14660898&resultType=1&lessonId=2775564 ♀ A ☆
Test 1037- Polity Advance 1	
UPSC GENERAL STUDIES	Answer Explanation
Q. 5 of 100 Marks: 2.0, -0.67 You have skipped this question, you scored 0.00 YOUR TIME ON AVG. TIME OVERALL CORRECT	 The regulation of the borrowing of money by the Union government; The custody of the Consolidated Fund of India or the contingency fund of India, the payment of moneys into or the withdrawal of money from any such fund; The appropriation of money out of the Consolidated Fund of India; Declaration of any expenditure charged on the Consolidated Fund of India or increasing the
Os 1m 27s 189 Consider the following statements regarding Money Bills:	 amount of any such expenditure; 6. The receipt of money on account of the Consolidated Fund of India or the public account of India or the custody or issue of such money, or the audit of the accounts of the Union or of a state; or 7. Any matter incidental to any of the matters specified above.
 Bill cannot be deemed to be money bill if it provides for regulation of any tax by any local authority or body for local purposes. A money bill can be introduced in the Lok Sabha only on the recommendation of the President Both the houses have equal power with regard to the Money Bill. 	1. the imposition of fines or other pecuniary penalties, or 2. the demand for payment of fees for licenses or fees for services rendered; or 3. the imposition, abolition, remission, alteration or regulation of any tax by any local authority or body for local purposes. Hence, statement 1 is correct.
4. In the case of Money Bill, no Suspensive veto is available with the President.	Provisions related to Money Bill:
How many of the statement/s given above is/are correct? Select the correct answer using the code given below:	 It can be introduced only in the Lok Sabha and not in the Rajya Sabha. It can be introduced only by a minister. It can be introduced only on the recommendation of the President. Hence, statement 2 is correct.
A Only one	 It cannot be amended or rejected by the Rajya Sabha. The Rajya Sabha should return the bill with or without recommendations, which may be accepted or rejected by the Lok Sabha. Hence, statement 3 is incorrect. It can be detained by the Rajya Sabha for a maximum period of 14 days only. It requires the
B Only two C Only three	 certification of the Speaker when transmitted to the Rajya Sabha. It is sent for the President's assent even if it is approved by only the Lok Sabha. There is no chance of any disagreement between the two Houses and hence, there is no provision of joint sitting of both the Houses in this regard
Offily tiffee	 Its defeat in the Lok Sabha leads to the resignation of the government. It can be rejected or approved but cannot be returned for reconsideration by the President. Hence, statement 4 is correct.

Have asked question on Money Bill 2 times in our various tests viz Static, Optima Tests



OPTIMIZE IAS QUESTION

Question No 20

The North Eastern Council (NEC) was established by the North Eastern Council Act, 1971. Subsequent to the amendment of NEC Act in 2002, the Council comprises which of the following members?

- Governor of the Constituent State
- 2. Chief Minister of the Constituent State
- 3. Three Members to be nominated by the President of India
- 4. The Home Minister of India

Select the correct answer using the code given below:

- (a) 1, 2 and 3 only
- (b) 1, 3 and 4 only
- (c) 2 and 4 only
- (d) 1, 2, 3 and 4

LAQSHYA Test No: 1037 Question No: 47

DIRECT QUESTION FROM OUR TESTS

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Test 1037- Polity Advance 1
UPSC GENERAL STUDIES
Q. 47 of 100 Marks: 2.0, -0.67
X You have skipped this question, you scored 0.00
Consider the following statements regarding composition of Zonal Councils:
 Zonal councils are chaired by the Prime Minister of India. Each zonal council includes CMs and Governors of each member state. Administrators of each union territory in the zone are also included in the Council.
How many of the above statement/s is/are correct?
(A) Only one
B Only two
c All three
D None



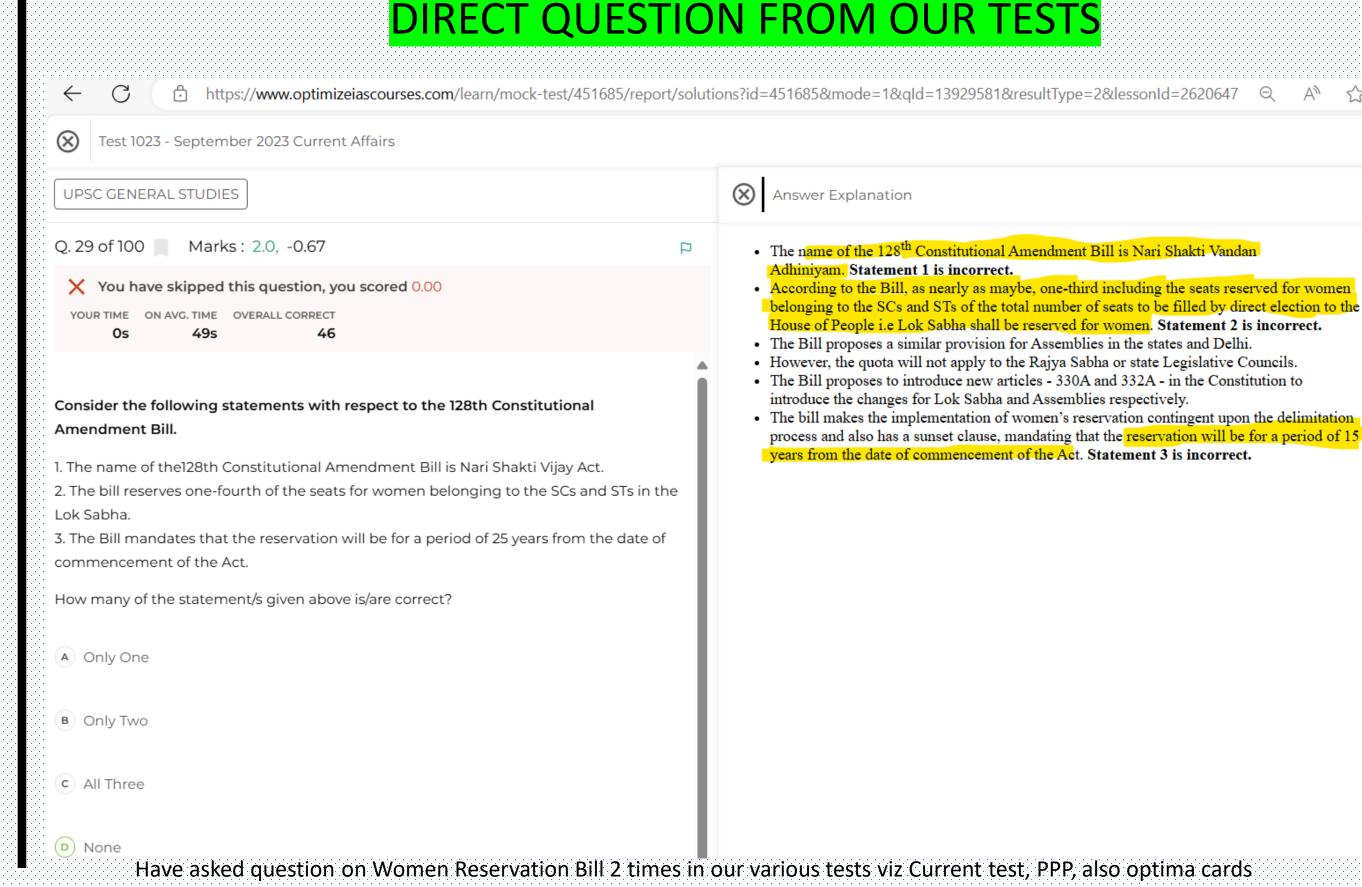
OPTIMIZE IAS QUESTION

Question No 21

- Consider the following statements regarding 'Nari Shakti Vandan Adhiniyam':
 - Provisions will come into effect from the 18th Lok Sabha.
 - This will be in force for 15 years after becoming an Act.
 - There are provisions for the reservation of seats for Scheduled Castes Women within the quota reserved for the Scheduled Castes.

Which of the statements given above are correct?

- 1, 2 and 3
- 1 and 2 only
- 2 and 3 only
- 1 and 3 only





OPTIMIZE IAS QUESTION

Question No 21

- 21. Consider the following statements regarding 'Nari Shakti Vandan Adhiniyam':
 - Provisions will come into effect from the 18th Lok Sabha.
 - This will be in force for 15 years after becoming an Act.
 - There are provisions for the reservation of seats for Scheduled Castes Women within the quota reserved for the Scheduled Castes.

Which of the statements given above are correct?

- (a) 1, 2 and 3
- (b) 1 and 2 only
- (c) 2 and 3 only
- (d) 1 and 3 only

DIRECT QUESTION FROM PPP

12. Consider the following

Statement 1: Women's Reservation Bill will provide 33 per cent quota for women in Lok Sabha and state legislative assemblies.

Statement 1 The Percentage of women in Lok Sabha have consistently decline in last 70 years Which one of the following is correct with respect to the above statements?

- a) Both statements I and II are correct, and statement II is the correct explanation for statement
 I.
- b) Both statements I and II are correct, and statement II is not the correct explanation for statement I.
- c) Statement I is correct, and Statement II is incorrect.
- d) Statement II is correct, and Statement I is incorrect

13. With regards to Parliamentary privileges consider the following statements:

1. There is a her on Courts to make anguiry into proceedings of the house



OPTIMIZE IAS OPTIMA CARDS

Question No 21

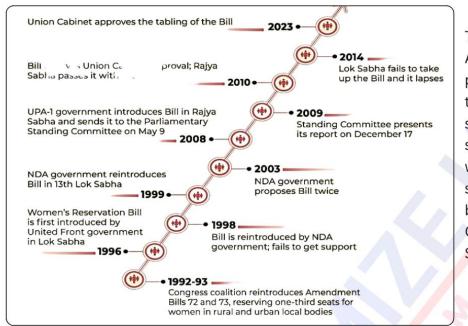
- 21. Consider the following statements regarding 'Nari Shakti Vandan Adhiniyam':
 - Provisions will come into effect from the 18th Lok Sabha.
 - This will be in force for 15 years after becoming an Act.
 - There are provisions for the reservation of seats for Scheduled Castes Women within the quota reserved for the Scheduled Castes.

Which of the statements given above are correct?

- (a) 1, 2 and 3
- (b) 1 and 2 only
- (c) 2 and 3 only
- (d) 1 and 3 only

THE 128TH CONSTITUTIONAL AMENDMENT BILL 2023





The 128th Constitutional
Amendment Bill 2023
proposes to reserve onethird of the total number of
seats in the Lok Sabha and
state assemblies for
women. This includes the
seats reserved for women
belonging to the Scheduled
Castes (SCs) and
Scheduled Tribes (STs).

Identification of Reserved Seats: What Does the Bill Propose?

• The proposed bill does not provide any specific method for identifying the reserved seats. It simply suggests that the reserved seats should be rotated after each delimitation exercise.

Sunset Clause

The bill has a sunset clause, mandating that the reservation will be for a period of 15 years from the date of commencement of the Act.

Status of Reservation for Women in Panchayati Raj Institutions (PRIs) and Urban Local Bodies

Article 243D of the Constitution provides for reservation of seats for SCs, STs, and women in Panchayats. As per the provisions of Article 243D, not less than one-third of the total number of seats reserved for SCs and STs shall be reserved for women.

Santosh Sir

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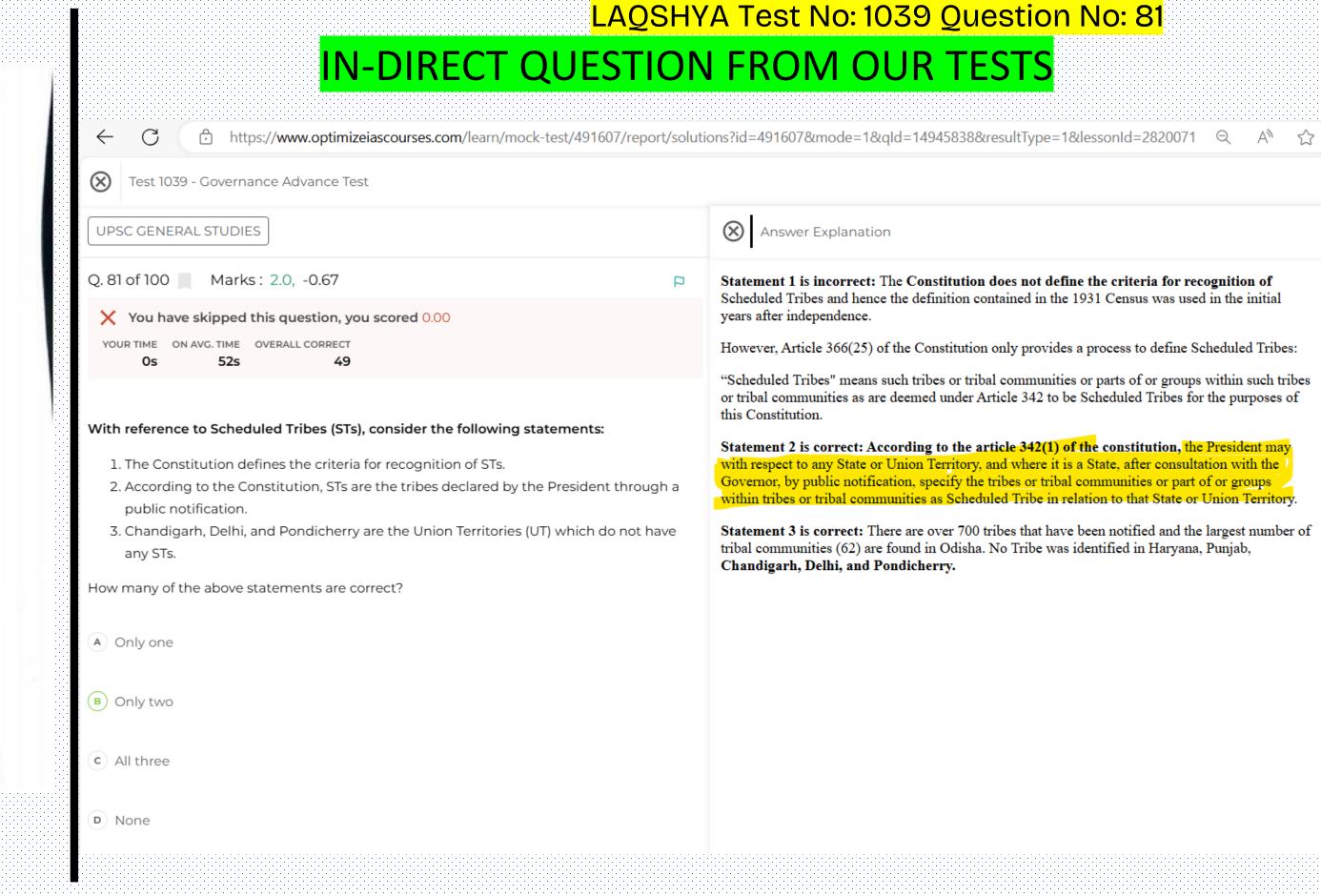
OPTIMIZE IAS QUESTION

Question No 24

- 24. Consider the following statements:
 - It is the Governor of the State who recognizes and declares any community of that State as a Scheduled Tribe.
 - A community declared as a Scheduled
 Tribe in a State need not be so in another State.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2





OPTIMIZE IAS QUESTION

Question No 23

A Writ of Prohibition is an order issued by the Supreme Court or High Courts to :

- (a) a government officer prohibiting him from taking a particular action.
- (b) the Parliament/Legislative Assembly to pass a law on Prohibition.
- (c) the lower court prohibiting continuation of proceedings in a case.
- (d) the Government prohibiting it from following an unconstitutional policy.

LAQSHYA Test No: 1036 Question No: 44

DIRECT QUESTION FROM OUR TESTS

← → C ° optimizeiascourses.com/learn/mock-test/479711/report/solutions?id=479711&mode=1&qld=	14595924	l&resultType=1&lessonId=2765229
Test 1036- NCERT Polity		
UPSC GENERAL STUDIES		Answer Explanation
Q. 44 of 100 Marks: 2.0, -0.67 You have skipped this question, you scored 0.00 YOUR TIME ON AVG. TIME OVERALL CORRECT	D	Right to vote and right to property are constitutional rights under Article 326 and Article 300a. Right to property from Fundamental rights was removed by 44th Constitutional amendment act (article 31). Right to Work is legal right under National Rural Employment Guarantee Act NREGA.
7s 39s 206		Right to constitutional remedy is provided under art 32 of the Constitution. Under it the citizens can directly go to the Supreme Court for violations of the fundamental right. The article gives the Supreme Court power to issue following writs:
How many of the following right/s is/are the fundamental rights provided by the Constitution? 1. Right to work		 Habeas corpus: A writ of habeas corpus means that the court orders that the arrested person should be presented before it. It can also order to set free an arrested person if the manner or grounds of arrest are not lawful or satisfactory.
2. Right to Constitutional remedy 3. Right to property		 Mandamus: This writ is issued when the court finds that a particular office holder is not doing legal duty and thereby is infringing on the right of an individual. Prohibition: This writ is issued by a higher court (High Court or Supreme Court) when a lower court has
4. Right to vote		considered a case going beyond its jurisdiction. 4. Quo Warranto : If the court finds that a person is holding office but is not entitled to hold that office, it issues the writ of quo warranto and restricts that person from acting as an office holder.
Select the correct answer using the code below		 Certiorari: Under this writ, the court orders a lower court or another authority to transfer a matter pending before it to the higher authority or court.
Only one		Hence option A is the correct answer.
B Only two		
© Only three		



OPTIMIZE IAS QUESTION

Question No 27

Consider the following pairs:

	Country	Reason for being in the news
1.	Argentina	Worst economic crisis
2.	Sudan	War between the country's regular army and paramilitary forces
3.	Turkey	Rescinded its membership of NATO

How many of the pairs given above are correctly matched?

All four

- Only one pair
- Only two pairs
- All three pairs (c)
- None of the pairs



LAQSHYA Test No: FLT1 Question No: 34

DIRECT QUESTION FROM OUR TESTS
Full Length Test 1
UPSC GENERAL STUDIES
Q. 34 of 100 Marks: 2.0, -0.67
X You have skipped this question, you scored 0.00
With respect to the possible causes of the Argentina's current economic crisis, consider the following:
1. High inflation
2. Capital controls imposed by the government
3. Political instability
4. Shortage of foreign currency reserves
How many of the above factors are correct with respect to the crisis?
A Only one
B Only two
© Only three





SUDAN

Why in news: armed clashes erupted between the Sudanese Army Forces (SAF) and the Rapid Support Forces (RSF)

- The armed clashes erupted between the Sudanese Army
 Forces (SAF) and the Rapid Support Forces (RSF) in multiple
 cities across Sudan, including Khartoum, Al Fasher, Merowe,
 Nyala, Ag Geneina, and El Obeid.
- The states of Khartoum, Northern, River Nile, Aj Jazirah, North Kordofan, White Nile, Sennar, Blue Nile, North Darfur, South Darfur, West Darfur, Central Darfur, Kassala, Gedaref, and Red Sea are seeing displacement



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Africa In the News

Place	Why in News
Sudan	Conflict between the SAF and RSF
Ethiopia	Untold thousands died from hunger
Senegal	Presidential election
Guinea,Burkina Faso,Gabon,Sierra Leone	Coup attempted
Mali,,Burkina Faso,Niger	Coup attempted, French Troops withdrawn from Burkina Faso
Mali	Islamist groups and ethnic Tuareg separatist fighters.
Zambia,Zimbabwe	Cholera outbreak
Rwanda	Rwanda Bill in UK
DRC	unrest, tensions between the DR Congo and its neighbouring country, Rwanda (M23 Rebel)
Chad	Thousands of Darfur refugees remain displaced in Chad
Zambia, Malawi and Zimbabwe	Hunger crisis ElNino induced drought

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Question No 29

Consider the following statements:

- The Red Sea receives very little precipitation in any form.
- No water enters the Red Sea from rivers.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2



OPTIMIZE IAS QUESTION

DIRECT QUESTION FROM OUR OPTIMA CARDS

Red
Sea

Location:
Seawater inlet
of the Indian
Ocean between
Africa and Asia

Unique
Characteristics:
World's
northernmost
tropical sea,
designated a
Global 200
ecoregion.



- South Connection: Links to the Indian Ocean through the Bab el Mandeb strait and the Gulf of Aden.
- Northern Features: Adjacent to the Sinai Peninsula, Gulf of Aqaba, and Gulf of Suez (leading to the Suez Canal).
- Geological Formation: Lies on the Red Sea Rift, part of the Great Rift Valley.
- Unique Characteristics: World's northernmost tropical sea, designated a Global 200 ecoregion.
- Geographic Extent: Elongated and narrow basin between the Mediterranean Sea (northwest) and Indian Ocean (southeast).
- Arid Surroundings: Surrounded by desert or semi-desert areas with no significant freshwater inflow.
- Geological History: Shaped over the past 4 to 5 million years through slow seafloor spreading, making it one of Earth's youngest oceanic zones.

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OPTIMIZE IAS QUESTION

Question No 30

According to the Environmental Protection Agency (EPA), which one of the following is the largest source of sulphur dioxide emissions?

- (a) Locomotives using fossil fuels
- (b) Ships using fossil fuels
- (c) Extraction of metals from ores
- (d) Power plants using fossil fuels

DIRECT QUESTION FROM PPP & CARDS

13. Consider the following regarding model code of conduct

- 1. Sulphur dioxide (SO2)
- 2. Oxides of nitrogen (NOx)
- 3. Particulate matter (PM)

How many of the above are main pollutants of coal fired thermal plants?

- a) Only one
- b) Only two
- c) All three
- d) None

13. Answer: C

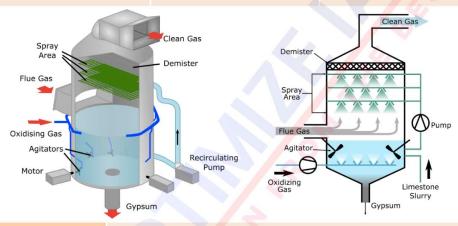
Explanation:

Coal thermal power plants contribute to over half sulphur dioxide (SO2) concentration, 30 per cent oxides of nitrogen (NOx), 20 per cent particulate matter (PM) in the ambient air.

PTIMIZE IAS LEARN FROM THE BEST

FLUE GAS DESULPHURISATION (FGD)

Purpose	Methods	Benefits
 Removal of Sulfur Dioxide (SO2) from exhaust flue gases. Targets pollutants from thermal processing, treatment, and combustion. 	 Wet FGD: Involves contact with absorbent (liquid or solid slurry). Dry FGD: Uses dry pulverized lime or limestone as absorbent, removed by baghouse filters. 	 Can remove 50- 99.8% of SOx emissions, depending on power plant vintage. Effective in keeping SO2 emissions below norms.



Sulfur Dioxide Pollution:

Status in India:

22 units (9,280 MW) of 207,045 MW coal-fired power plants equipped with FGD (less than 5%).

- India largest emitter of SO2 globally, mainly due to coalbased electricity expansion.
- Sources: Fossil fuel burning, industrial processes, natural sources, vehicles.
- Impact: Health issues, respiratory problems, environmental damage

Regulation/Impl ementation:

- December 2015: Ministry mandated SO2 emission norms for coal-based power plants, requiring FGD installation.
- Phased implementation delayed, extensions granted up to December 2026.
- Central Electricity Authority (CEA) oversees and advises on power sector development, standards, and cross-border trade

MOST IMPORTANT QUESTIOSN FOR PRELIMS 2024: LAQSHYA OPTIMA 2024
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DIRECT QUESTION FROM OUR TESTS

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Full Length Test 4	
UPSC GENERAL STUDIES	
Q. 58 of 100	
What is the primary purpose of Flue Gas Desulfurization (FGD) in industrial processes?	
A To increase the efficiency of fuel combustion in furnaces and boilers.	
B To reduce the temperature of flue gases before they are released into the atmosphere.	
C To capture and recycle carbon dioxide emissions for industrial use.	
D To remove sulfur dioxide (SO2) from exhaust flue gases generated in furnaces, boilers, and other industrial pr	ocesses.

LAQSHYA Test No: FLT4 Question No: 58

Flue Gas Desulphurisation (FED):

- Removal of Sulfur Dioxide is called as Flue-gas Desulphurization (FGD).
- It seeks to remove gaseous pollutants viz. SO2 from exhaust flue gases generated in furnaces, boilers, and other industrial processes due to thermal processing, treatment, and combustion. So, Option D is the correct answer.
- FGD systems may involve wet scrubbing or dry scrubbing.
 - In wet FGD systems, flue gases are brought in contact with an absorbent, which can be either a liquid or a slurry of solid material. The sulfur dioxide dissolves in or reacts with the absorbent and becomes trapped in it.
 - In dry FGD systems, the absorbent is dry pulverized lime or limestone; once absorption occurs, the solid particles are removed by means of baghouse filters.

Benefits of Flue Gas Desulphurisation (FED):

- According to the **Centre for Atmospheric Science**, **IIT Delhi**, an FGD unit can remove anywhere between 50 and 99.8 per cent of SOx emissions, depending on the power plant's vintage.
- CEA data shows that most of the plants with FGD have been able to keep SO2 emissions below the norm – only NTPC's Dadri units 1, 3 and 4 – each of 210 MW capacity – are wayward.

Question No 31

Consider the following statements:

Statement-I:

If the United States of America (USA) were to default on its debt, holders of US Treasury Bonds will not be able to exercise their claims to receive payment.

Statement-II:

The USA Government debt is not backed by any hard assets, but only by the faith of the Government.

Which one of the following is correct in respect of the above statements?

- (a) Both Statement-I and Statement-II are Statement-II explains correct and Statement-I
- (b) Both Statement-I and Statement-II are correct, but Statement-II does not explain Statement-I
- Statement-I is correct, but Statement-II is incorrect
- (d) Statement-I is incorrect, but Statement-II is correct



OPTIMIZE IAS QUESTION



ABOUT US FREE INITIATIVES COURSES

UNITED STATES DEBT CEILING CRISIS

(I) May 18, 2023 Posted by: OptimizeIAS Team Category: DPN Topics

No Comments

United States Debt Ceiling Crisis

Subject : Economy

Section: Fiscal Policy

Concept:

- With the ongoing U.S. debt ceiling crisis, finance leaders of the Group of Seven (G7) nations warned for further global economic uncertainty

Background

- On January 19, 2023, the United States hit its debt ceiling limit of \$31.4 trillion, leading to a debt-ceiling
- Recently, the U. Treasury Secretary has notified the U.S. Congress that the country could default on its debt as early as June 1, 2023 if the White House does not reach a consensus to raise or suspend the debt ceiling.

What is the 'US Debt Ceiling'?

- It refers to the maximum amount of money that the United States government is authorized to borrow to fund its operations and meet its financial obligations.
- It is a legal limit set by Congress on the total amount of outstanding debt that the government can
- The debt ceiling was established by the US Congress in 1917 during World War I to make the federal government fiscally responsible.

What happens when the Government reaches Debt Ceiling?

- When the government reaches the debt ceiling, it cannot legally borrow any more funds to cover its expenses.
- At that point, the Treasury Department must employ various measures, known as "extraordinary measures," to continue financing the government's operations without surpassing the debt limit.

Consequences:

- India has no monitoring, surveillance or mechanism to ensure that genetically modified crops are not imported into the country. It even does not have adequate infrastructure to test for GMOs and only 2 per cent of food-testing laboratories in India can check for the presence of GM products.
- There has been a significant increase in India's fruit and vegetable imports, especially from nations that produce GMO varieties.
- The US, Brazil and Argentina are the top three countries in terms of land under GMO cultivation. They
 are also major exporters of foods to India.
 - In 2018-2022, the US exported apples worth over Rs 1,811 crore to India. This is 17 per cent of the total apples imported by India in the period.
 - Argentina and Brazil are India's top two sources of degummed soyabean oil in 2022-23. Overall, the import of fresh fruit and vegetables in India has increased by 25 per cent in the past decade.

Coalition for a GM-Free India:

- Established in 2006
- The Coalition for a GM-Free India is a loose, informal network of scores of organizations and individuals
 from across India, campaigning and advocating to keep India GM-Free and to shift our farming towards a
 sustainable path.
- Consisting of farmers', consumers', environmental, women's and other organizations, this network is opposed
 to the environmental release of **Genetically Modified Organisms (GMOs)** given the potential adverse health
 and environmental impacts, in addition to the fact that **GMOs** also are taking away valuable research and
 other resources from more lasting solutions.





To Be Best Learn From Best



Topic wise coverage

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Relevant facts included

All committee, reports

Prepared by Santosh Sir

- All 6 Pre Qualified
- 4 Mains Qualified
- State PCS Qualifid
- ex-Deputy Collector



ISHITA KISHORE

AIR - 01, CSE 2022

Lam in your mains program also and it has been extremely helpful as i am getting a solid understanding of syllabus rather than mindlessly reading books or giving test series.

MAINS MASTER NOTES STUDENT

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OPTIMIZE IAS QUESTION

Question No 33

Consider the following statements in respect of the digital rupee :

- It is a sovereign currency issued by the Reserve Bank of India (RBI) in alignment with its monetary policy.
- It appears as a liability on the RBI's balance sheet.
- It is insured against inflation by its very design.
- It is freely convertible against commercial bank money and cash.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 2 and 4 only
- (d) 1, 2 and 4



Fiat, Crypto vs CBDC

Why in the news?

Deputy Governor of the RBI called cryptos worse than a Ponzi scheme and argued against "legitimizing" them. Yet, the RBI announced that it will float a Central Bank Digital Currency (CBDC).

Basis	Cryptocurrency	Central Bank Digital Currency (CBDC)					
Meaning	Digital token issued by a private institution or firm.	Digital tokens issued by a central bank.					
Legality	Not a fiat currency as not backed by the government.	Digital form of a country's fiat currency.					
Technology	Based on cryptography and blockchain technology.	Designed to be similar to cryptocurrencies but may not require blockchain or consensus mechanisms.					
Intrinsic Value	No intrinsic value but used for transactions due to acceptability, scarcity, and anonymity.	Pegged to the value of the country's fiat currency.					
Regulation	Unregulated and decentralized, often involving anonymous transactions.	Centralized and may not anonymize transactions as some cryptocurrencies do.					
Effect on Monetary Policy	Complicates monetary policy transmission as it operates as a parallel unregulated currency.	Promotes financial inclusion and simplifies the implementation of monetary and fiscal policy. Provides stability, backed by the government and controlled by a central bank. Has legal backing and government support.					
Value	Highly volatile, with constant fluctuations in value.						
Acceptabilit y	Value dictated by investor sentiments, usage, and user interest.						
Spending	Double spending possible as the same digital token can be used repeatedly.	Fiat currency prevents double spending through forgery, as it's no longer with the spender once spent.					

Fiat Currency-Fiat money is a government-issued currency that is not backed by a physical commodity like gold or silver. It is considered a form of legal tender that can be used to exchange goods and services.

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2. Consider the following:

- 1. Financial inclusion
- 2. Formalisation of economy
- 3. Strengthen banking sector
- 4. Digitalisation

How many of the above are impact of CBDC? Select the correct answer

- a) Only one
- b) Only two
- c) Only three
- d) All of the above

3. Consider the following

- 1. It is the legal tender
- 2. It is issued and governed by the central bank
- 3. It is in digital form
- 4. It is same as a fiat currency
- 5. It will be based on blockchain technology

How many of the above is /are true about CBDC?

- a) Only two
- b) Only three
- c) Only four
- d) All five



OPTIMIZE IAS QUESTION

Question No 33

Consider the following statements in respect of the digital rupee:

- It is a sovereign currency issued by the Reserve Bank of India (RBI) in alignment with its monetary policy.
- It appears as a liability on the RBI's balance sheet.
- It is insured against inflation by its very design.
- It is freely convertible against commercial bank money and cash.

Which of the statements given above are correct?

- 1 and 2 only
- 1 and 3 only
- 2 and 4 only
- 1, 2 and 4

LAQSHYA Test No: 1015 Question No: 74

IN-DIRECT QUESTION FROM OUR TESTS

https://www.optimizeiascourses.com/learn/mock-test/433652/report/solutions?id=433652&mode=1&qld=13451509&resultType=1&lessonId=2517101 Test 1015 - Indian Economy UPSC GENERAL STUDIES Merits Q. 74 of 100 Marks: 2.0, -0.67 You have skipped this question, you scored 0.00 ON AVG. TIME OVERALL CORRECT 138 1m 24s The Reserve Bank of India is planning to come out with a central bank-backed digital currency, using blockchain technology in 2022-23. Consider the various impact of a digital rupee: 1. Financial inclusion 2. Hardens monetary policy transmission Encourage banking expansion 4. Control inflation Digitalisation Increase dependence on the US\$ Concerns Which of the above statements are correct? A) 1, 2, 4 and 5 only B) 1, 3, 4, 5 and 6 only (c) 1, 4 and 5 only

Answer Explanation

- Reduce the cost of currency management
- May reduce inflation as a high currency to GDP ratio is inflationary (might decline unnecessary cash holdings.
- Digital Rupee transactions will be instantaneous as opposed to the current digital payment
- · Enabling real-time payments without any inter-bank settlement thus, reducing transaction
- The cost of printing, transporting and storing paper currency can be substantially reduced.
- Financial inclusion.
- · Better targeting of beneficiary of cash subsidy schemes
- · Counter the growth of private forms of digital money.
- The state-backed digital currency can provide investor/consumer protection, the private can confidently invest in the associated infrastructure without any doubts over its regulation.
- · Less volatile than other private digital currency as regulated by the RBI
- · Better monetary policy transmission. Statement 2 is incorrect.
- . The central bank would be able to keep a track of the exact location of every unit of the currency, thereby curbing money laundering, terror financing and counterfeiting.
- · Reduce dependence on dollars for international transactions. Statement 6 is incorrect.
- Digital illiteracy
- Lack of internet and smartphone penetration
- Technology related exclusion from welfare schemes
- · Cyber threat
- Collect certain basic information of an individual so that the person can prove that he's the holder of that digital currency thus privacy concerns
- Technological issues- underlying technology, the validation mechanism and distribution
- Sudden flight of money from a bank under stress is another point of concern.
- Eliminate the large infrastructure of banking and financial institutions. Statement 3 is
- · So, option C is the answer.

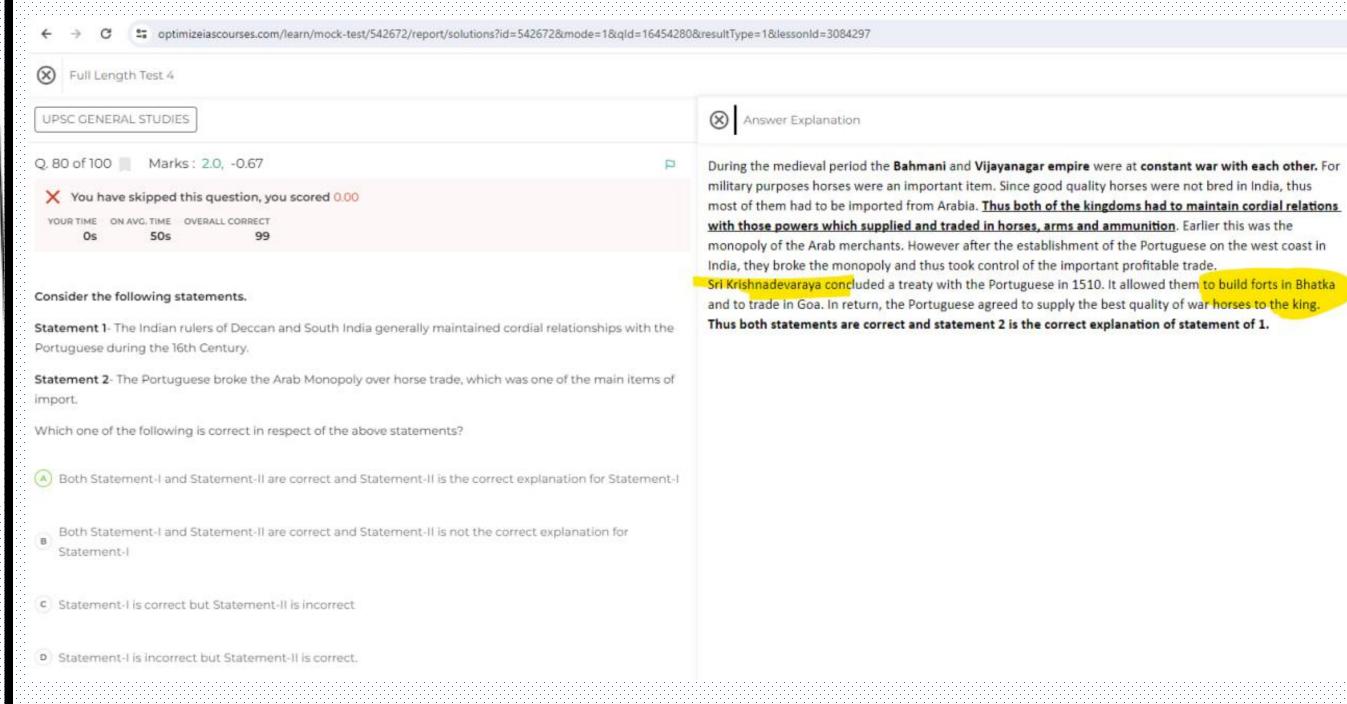


OPTIMIZE IAS QUESTION

Question No 36

- 36. Who of the following rulers of medieval India gave permission to the Portuguese to build a fort at Bhatkal?
 - (a) Krishnadevaraya
 - (b) Narasimha Saluva
 - c) Muhammad Shah III
 - (d) Yusuf Adil Shah







OPTIMIZE IAS QUESTION

Question No 37

- 37. With reference to revenue collection by Cornwallis, consider the following statements:
 - Under the Ryotwari Settlement of revenue collection, the peasants were exempted from revenue payment in case of bad harvests or natural calamities.
 - Under the Permanent Settlement in Bengal, if the Zamindar failed to pay his revenues to the state, on or before the fixed date, he would be removed from his Zamindari.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

LAQSHYA Test No: 1026 Question No: 20

← C https://www.optimizeiascourses.com/learn/mock-test/456758/report/solu	ıtions?id=456758&mode=1&qld=14070045&resultType=1&lessonId=2648963
Test 1026 - History Modern India Advance Part 1	
UPSC GENERAL STUDIES	Answer Explanation
Q. 20 of 100 Marks: 2.0, -0.67 You have skipped this question, you scored 0.00	The first pair is correctly matched. A policy shift can be noticed from the time of Cornwallis who had an Anglican approach towards Indian administration. He introduced the permanent settlement system in India which was based on private property of land.
YOUR TIME ON AVG. TIME OVERALL CORRECT Os 56s 105	The second pair is not correctly matched. Though the period of Cornwallis saw a policy of non expansion, Third Anglo Mysore took place in 1790 as Tipu attacked Travancore, an ally of the British East India company.
Consider the following pairs: Governor General Step taken	The third pair is correctly matched. While Wellesley is more known for his policies like subsidiary alliance system and outright wars, he also established the Fort William college in India in 1800 as a centre of oriental studies as a part of training of civil servants.
Permanent settlement system Warren Hastings Third Anglo Mysore war Wellesley Fort William College How many of the above pair/s is/are correctly matched?	
Only one	
B Only two	
C All three	
D None	



OPTIMIZE IAS QUESTION

Question No 40

- Which one of the following was the latest inclusion in the Intangible Cultural Heritage List of UNESCO?
 - Chhau dance
 - Durga puja
- Garba dance
- Kumbh mela

LAQSHYA Test No: 1042 Question No: 64

DIRECT QUESTION FROM OUR TESTS

https://www.optimizeiascourses.com/learn/mock-test/500277/report/solutions?id=500277&mode=1&qld=15215958&resultType=1&lessonId=2876265 Test 1042 - History Optima Test Answer Explanation UPSC GENERAL STUDIES Marks: 2.0, -0.67 P • Statement 1 is correct: Garba is a type of Gujarati folk dance that is performed during Navratri, a nine-day Hindu festival that celebrates the triumph of good over evil. Garba is derived from the Sanskrit word for womb, suggesting life and creation. You have skipped this question, you scored 0.00 Statement 2 is correct: Garba dances celebrate fertility, honour womanhood, and pay ON AVG. TIME OVERALL CORRECT homage to a variety of mother goddesses. The dance also traditionally celebrates a girl's first menstrual cycle and, later, her upcoming marriage. · Statement 3 is incorrect: Garba performances frequently involve singing and musical accompaniment given by the dhol (double-headed drum) and the comparable but smaller dholak; hand clapping; and various metallic idiophones such as cymbals. Recently, UNESCO added Gujarat's Garba dance to its Representative List of Intangible Cultural Heritage of Humanity. Consider the following statements regarding the Garba 1. This folk dance is performed during the nine-day Hindu festival of Navratri, symbolizing the triumph of good over evil. 2. It is a celebration of fertility, an homage to womanhood, and a tribute to various mother goddesses. 3. It includes singing but not musical instruments. How many of the statements given above are correct? A) Only one B Only two c All three



Garba in UNESCO Intangible Cultural Heritage List

- Traditional dance from Gujarat, India, added to UNESCO list.
- 15th cultural element from India to receive this recognition.

About Garba

ORIGINS	NATURE OF DANCE:	MUSIC AND INSTRUMENTS:	TRADITIONAL ATTIRE:			
 Term comes from "Garbha" (womb) and "Deep" (lamp). Performed during Navratri to worship Hindu goddess Durga. 	 Energetic, circular movements, clapping hands, intricate footwork. Symbolizes life, death, and rebirth. 	 Accompanied by rhythmic music, traditional instruments like dhol, harmonium, flute. Modern adaptations include electronic instruments. 	 Women wear chaniya choli, men wear kediyu, dhoti or pajama. Embellished with mirrors and embroidery 			

Dance form:

- Inclusivity and Community Aspect:
 - Inclusive dance for all ages and backgrounds.
 - Emphasizes community participation.
- Dandiya Raas Association:
 - Often followed by **Dandiya Raas**, a dance with sticks (dandiyas).
 - Especially after the Aarti (worship ritual).

India's ICH on UNESCO List

- Nodal Organization:
- Sangeet Natak Akademi manages nominations for India's intangible cultural entities.
- . ICH from India:
- Durga Puja (2021), Kumbh Mela (2017), Navroz (2016), Yoga (2016), Punjab's brass and copper craft (2014), Manipur's Sankirtana (2013), Ladakh's Buddhist chanting (2012).
- Previous inclusions: Chhau dance, Kalbelia folk songs and dance (2010), Mudiyettu from Kerala (2010), Ramman festival of Garhwal (2009), Kutiyattam or Sanskrit theatre, Vedic chanting (2008), Ramlila (2008).

UNESCO Intangible Cultural Heritage (ICH):

- Practices, representations, expressions, knowledge, skills, instruments, objects, artifacts, and associated cultural spaces.
- Importance:
 - Wealth of knowledge, know-how, and skills transmitted across generations.
- Convention Adoption:
 - UNESCO adopted the Convention for the Safeguarding of ICH in 2003.
- List Establishment:
 - UNESCO's list of Intangible Cultural Heritage of Humanity started in 2008.



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OPTIMIZE IAS QUESTION

Question No 41

Consider the following statements:

Statement-I:

There is instability and worsening security situation in the Sahel region.

Statement-II:

There have been military takeovers/coups d'état in several countries of the Sahel region in the recent past.

Which one of the following is correct in respect of the above statements?

- (a) Both Statement-I and Statement-II are correct and Statement-II explains Statement-I
- (b) Both Statement-I and Statement-II are correct, but Statement-II does not explain Statement-I
- (c) Statement-I is correct, but Statement-II is incorrect
- (d) Statement-I is incorrect, but Statement-II is correct

DIRECT QUESTION FROM OUR OPTIMA CARDS

7. Sahel region recently in new is in

- a) Asia
- b) Africa
- c) Europe
- d) Russia

8. In recent years Burkina Faso, Guinea, Niger and Mali have caught international attention for which of the following reasons

- a) Discovery of Lithium
- b) Discovery of strategic minerals
- c) Discovery of oil
- d) Coups



Sahel Region

Place In News

- WHY IN NEWS?
 - On November 9. French **President Emmanuel Macron** announced the end of the decade long **Operation Barkhane in Africa**

Sahel region, Africa



- **Geography of Sahel Region:**
- The Sahel is the ecoclimatic and biogeographic realm of transition in Africa between the Sahara to the north and the Sudanian savanna to the south.
- Having a semi-arid climate, it stretches across the southcentral latitudes of Northern Africa between the Atlantic Ocean and the Red Sea. The name is derived from the Arabic term for "coast, shore": this is explained as being used
- in a figurative sense in reference to the southern edge of the vast Sahara. The Sahel part includes from west to east parts of northern
- central Mali, northern Burkina Faso, the extreme south of Algeria, Niger, the extreme north of Nigeria, the extreme north of Cameroon and the **Central African Republic,**
- central Chad, central and southern Sudan, the extreme north of South Sudan. Eritrea and the extreme north of Ethiopia.

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Africa In the News

Allicalitations								
Place	Why in News							
Sudan	Conflict between the SAF and RSF							
Ethiopia	Untold thousands died from hunger							
Senegal	Presidential election							
Guinea,Burkina Faso,Gabon,Sierra Leone	Coup attempted							
Mali,,Burkina Faso,Niger	Coup attempted, French Troops withdrawn from Burkina Faso Islamist groups and ethnic Tuareg separatist fighters.							
Mali								
Zambia,Zimbabwe	Cholera outbreak							
Rwanda	Rwanda Bill in UK							
DRC	unrest, tensions between the DR Congo and its neighbouring country, Rwanda (M23 Rebel)							
Chad	Thousands of Darfur refugees remain displaced in Chad							
Zambia, Malawi and Zimbabwe	Hunger crisis ElNino induced drought							

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SAHEL REGION



- The region of ecoclimatic and biogeographic transition between the Sudanese savanna to the south and the Sahara to the north.
- It covers the southern central latitudes of Northern Africa, between the Atlantic Ocean and the Red Sea, and has a semiarid climate.
- The name is derived from the Arabic word for "coast, shore," which is used metaphorically to allude to the southernmost tip of the huge Sahara, it is said.
- The Sahel part includes from west to east parts of northern Senegal, southern Mauritania, central Mali, extreme north of Burkina Faso, the extreme south of Algeria, Niger, the extreme north of Nigeria, the extreme north of Cameroon and the Central African Republic, central Chad, central and southern Sudan, the extreme north of South Sudan, Eritrea and the extreme north of Ethiopia.

Great Green Wall (GGW) Programme

- Launched in 2007 by the African Union.
- A band of trees about 8,000 kilometers long and 8 kilometers wide, stretching across Africa from east to west.
- To restore 100 million hectares of degraded ecosystems across 11 countries in the region.
- To promote sustainable development and climate change mitigation.
- By 2030, the GGW aims to sequester 250 million tonnes of carbon, restore 100 million hectares of currently degraded land and create 10 million jobs for the world's poorest people.

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Question No 42

Consider the following statements:

Statement-I:

India does not import apples from the United States of America.

Statement-II:

In India, the law prohibits the import of Genetically Modified food without the approval of the competent authority.

Which one of the following is correct in respect of the above statements?

- (a) Both Statement-I and Statement-II are correct Statement-II and explains Statement-I
- (b) Both Statement-I and Statement-II are correct, but Statement-II does not explain Statement-I
- (c) Statement-I is correct, but Statement-II is incorrect
- (d) Statement-I is incorrect, but Statement-II is correct.



OPTIMIZE IAS QUESTION



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INDIA'S APEX FOOD REGULATOR HAS NO DATA ON THE PRESENCE OF GMOS IN FRESH PRODUCE IMPORTED OVER THE PAST 5 **YEARS**

(1) November 15, 2023 Posted by: OptimizeIAS Team Category: DPN Topics

India's apex food regulator has no data on the presence of GMOs in fresh produce imported over the past 5 years

Subject: Polity

Section: National body

In the news:

- The Food Safety and Standards Authority of India (FSSAI), the country's nodal food regulatory body, does not know if the fresh food produce imported in the past five years included genetically modified (GM) varieties. Neither does FSSAI have information on tests undertaken to check for the presence of such
- These are the findings of a Right To Information (RTI) investigation by Down To Earth (DTE).
- This raises questions about whether the fruit and vegetables sold currently in the country are free of GM varieties or not.

Genetically Modified Organism (GMO):

- When a new variety of plant is created by inserting in it the genes of another plant, organism or bacteria, the variety becomes a genetically modified organism (GMO).
- Since there is not enough data or research on the long-term impacts of GMO on human health, there is no unanimity in the scientific community on their regular consumption
- Countries that has allowed the production of GM Crops:
- Some 28 countries allow large-scale farming of these GMO crops.
- In India, the Food Safety and Standards Act, of 2006, prohibits the import, manufacture, use or sale of GM food without FSSAI's approval.

UPSC PRELIMS 2025

PRACTICE MOST IMPORTANT
QUESTIONS PREDICTED BY

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OPTIMIZE IAS QUESTION

Question No 43

43. With reference to the Speaker of the Lok Sabha, consider the following statements:

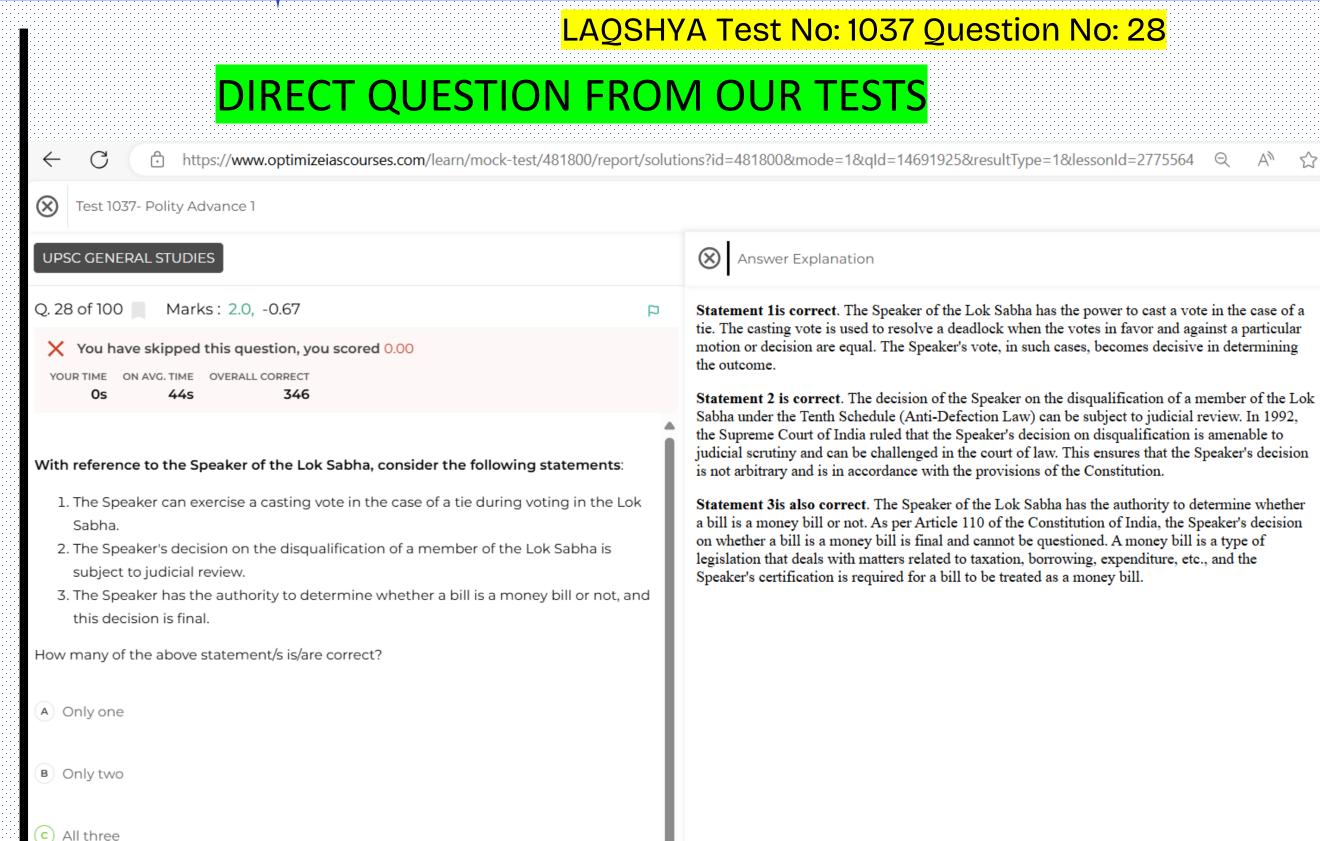
While any resolution for the removal of the Speaker of the Lok Sabha is under consideration

- He/She shall not preside.
- He/She shall not have the right to speak.
- He/She shall not be entitled to vote on the resolution in the first instance.

Which of the statements given above is/are correct?

D None

- (a) 1 only
- (b) 1 and 2 only
- (c) 2 and 3 only
- (d) 1, 2 and 3





OPTIMIZE IAS QUESTION

Question No 44

- With reference to the Indian Parliament, consider the following statements:
 - A bill pending in the Lok Sabha lapses on its dissolution.
 - A bill passed by the Lok Sabha and pending in the Rajya Sabha lapses on the dissolution of the Lok Sabha.
 - A bill in regard to which the President of India notified his/her intention to summon the Houses to a joint sitting lapses on the dissolution of the Lok Sabha.

Which of the statements given above is/are correct?

- 1 only
- 1 and 2
- 2 and 3
- 3 only



LAQSHYA Test No: 1041 Question No: 93

DIRECT QUESTION FROM OUR TESTS

Test 1041 - Polity Optima Test

UPSC GENERAL STUDIES

Q. 93 of 100 Marks: 2.0, -0.67

You have skipped this question, you scored 0.00

With the dissolution of Lok Sabha under how many of the following conditions Bills lapses?

- 1. A bill originated in the Lok Sabha but pending in the Lok Sabha.
- 2. A bill that originated in the Rajya Sabha and was passed there but is still pending in the Lok Sabha.
- 3. A bill originated and passed by the Lok Sabha but pending in the Rajya Sabha.
- 4. A bill pending in the Rajya Sabha but not passed by the Lok Sabha.

Select the correct answer using the code below:

- A) Only one
- B) Only two
- (c) Only three
- D) All

DIRECT QUESTION FROM PPP

23. Consider the following statements

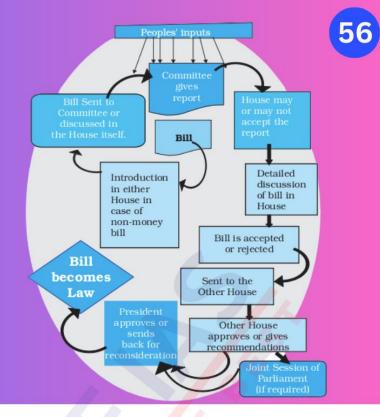
- 1.A Bill pending in the Lok Sabha lapses on its prorogation.
- 2.A Bill pending in the Rajya Sabha, which has not been passed by the Lok Sabha, shall not lapse on dissolution of the Lok Sabha.

Select the correct answer using the code given below.

- a)1 only
- b)2 only
- c)Both 1 and
- d)Neither 1 nor 2



Lapsing of Bills in Parliament



1 -

Bills Lapsing upon Dissolution of Lok Sabha:

- Bill originating in Lok Sabha and pending in Lok Sabha
- Bill originating in Rajya Sabha, passed by Rajya Sabha, and pending in Lok Sabha
- Bill originating and passed in Lok Sabha, pending in Rajya Sabha

Bills Lapsing upon Rajya Sabha's Non-Agreement with Lok Sabha

2

Amendments:

 Bill originating and passed in Rajya Sabha, returned with amendments by Lok Sabha, and not cleared by Rajya Sabha

3

Bills Not Lapsing:

- Bill pending in Rajya Sabha but not passed by Lok Sabha
- Bill passed by both Houses pending President's assent
- Bill passed by both Houses and returned by President for reconsideration by Rajya Sabha
- Pending bills and pending assurances to be examined by Committee on Government Assurances

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Question No 45

With reference to the Parliament of India, consider the following statements:

- Prorogation of a House by the President of India does not require the advice of the Council of Ministers.
- Prorogation of a House is generally done after the House is adjourned sine die but there is no bar to the President of India prorogating the House which is in session.
- Dissolution of the Lok Sabha is done by the President of India who, save in exceptional circumstances, does so on the advice of the Council of Ministers.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 1 and 2
- (c) 2 and 3
- (d) 3 only



OPTIMIZE IAS QUESTION





Sessions of Parliament

Summoning

- The President summons each House of the Parliament from time to time.
- The gap between two sessions of the Parliament cannot exceed 6
 months, which means the Parliament meets at least two times in
 one year.

Adjournment

- Adjournment terminates the sitting of the House which meets again at the time appointed for the next sitting.
- The postponement may be for a specified time such as hours, days or weeks.
- Adjournment sine die is the termination of the sitting of the House without any definite time/ date fixed for the next meeting.

Prorogation

- Prorogation is the end of a session.
- It puts an end to a session.
- The time between the Prorogation and reassembly is called **Recess**.
- Prorogation is the end of session and not the dissolution of the house (in case of Lok Sabha, as Rajya Sabha does not dissolve).

Quorum

- Quorum refers to the minimum number of the members required to be present for conducting a meeting of the house.
- The Constitution has fixed one-tenth strength as quorum for both Lok Sabha and Rajya Sabha.
- Thus, to conduct a sitting of Lok Sabha, there should be at least 55 members present while to conduct a sitting of Rajya Sabha, there should be at least 25 members present.

Legislative Motion:

• Closure Motion:

 It is a motion moved by a member to cut short the debate on a matter before the House.

Privilege Motion:

- It is concerned with the breach of parliamentary privileges by a minister.
- It is moved by a member when he feels that a minister has committed a breach of privilege of the House.

Calling Attention Motion:

 It is introduced in the Parliament by a member to call the attention of a minister to a matter of urgent public importance, and to seek an authoritative statement from him on that matter.

No-Confidence Motion:

- Article 75 of the Constitution says that the council of ministers shall be collectively responsible to the Lok Sabha.
- The Lok Sabha can remove the ministry from office by passing a no-confidence motion

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OPTIMIZE IAS QUESTION

Question No 46

Consider the following statements:

Statement-I:

The European Parliament approved The Net-Zero Industry Act recently.

Statement-II:

The European Union intends to achieve carbon neutrality by 2040 and therefore aims to develop all of its own clean technology by that time.

Which one of the following is correct in respect of the above statements?

- (a) Both Statement-I and Statement-II are correct and Statement-II explains Statement-I
- (b) Both Statement-I and Statement-II are correct, but Statement-II does *not* explain Statement-I
- (c) Statement-I is correct, but Statement-II is incorrect
- (d) Statement-I is incorrect, but Statement-II is correct

LAQSHYA Test No: FLT2 Question No: 89

Full Length Test 2
PSC GENERAL STUDIES
89 of 100 Marks: 2.0, -0.67
You have skipped this question, you scored 0.00
nat is the objective of the European Union's "Fit for 55" plan?
To reduce the obesity among the population of EU nations by 55% by 2030
To reduce greenhouse gas emissions by 55% by 2030 compared to 1990 levels
To reduce 55% of food emissions in all EU industries by 2030
To plant 55 million trees across Europe by 2030

India is planning to establish a framework for a carbon border tax in Production in EU response to the European Union's carbon border adjustment mechanism (CBAM). India aims to develop its Production abroad own carbon pricing system to avoid potential default values on its exports.



Green Deal

Based on domestic emission standards with a penalty for exceeding them.						
Global transition starts in October, fully effective from January 2026.						
Initially applies to industries like cement, iron and steel, aluminium, fertilizers, electricity, hydrogen, and their precursors.						
Concerns raised about the list expanding in the future, possibly affecting developing countries like India.						
Importers into the EU must report annual imports and associated greenhouse gas emissions.						
Importers need to surrender CBAM certificates, purchasable at a determined price based on weekly EU emission allowance auction price.						
Emission allowances express the right to emit a specific amount of carbon, measured in euros per tonne of carbon.						
India seeks exemption for its small businesses from the EU's carbon tax.						

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DIRECT QUESTION FROM OUR TESTS

6. Green Deal Industrial Plan recently launched by

- e) QUAD
- f) ASEAN
- g) GS20
- h) EU

7. Biogas is a renewable energy source composed majorly of?

- a) Hydrogen and Oxygen
- b) Methane and carbon dioxide
- c) Propane and carbon dioxide
- d) Methane and Carbon monoxide

8. SATAT is an initiative aimed at

- a) setting up of green hydrogen production plants
- b) setting up of Compressed Bio-Gas production plants
- c) setting up of Compressed Bio-Gas production plants
- d) setting up Electric Vehicle manufacturing plants



ABOUT US FREE INITIATIVES COURSES

GREEN DEAL INDUSTRIAL PLAN

(§ February 6, 2023 🙎 Posted by: OptimizeIAS Team 📜 Category: DPN Topics

Green Deal Industrial Plan

Subject : Environment

Section: Climate Change

Context: In a bid to support and expand its green industry, the European Union on February 1 revealed the "Green Deal Industrial Plan" that aims to cut red tape and provide massive subsidies.

Concept:

'Green Deal Industrial Plan' oversees trade policy of the EU, the proposal involves building a simpler regulatory framework, providing faster access to funds, enhancing skills and improving the EU's trade network.

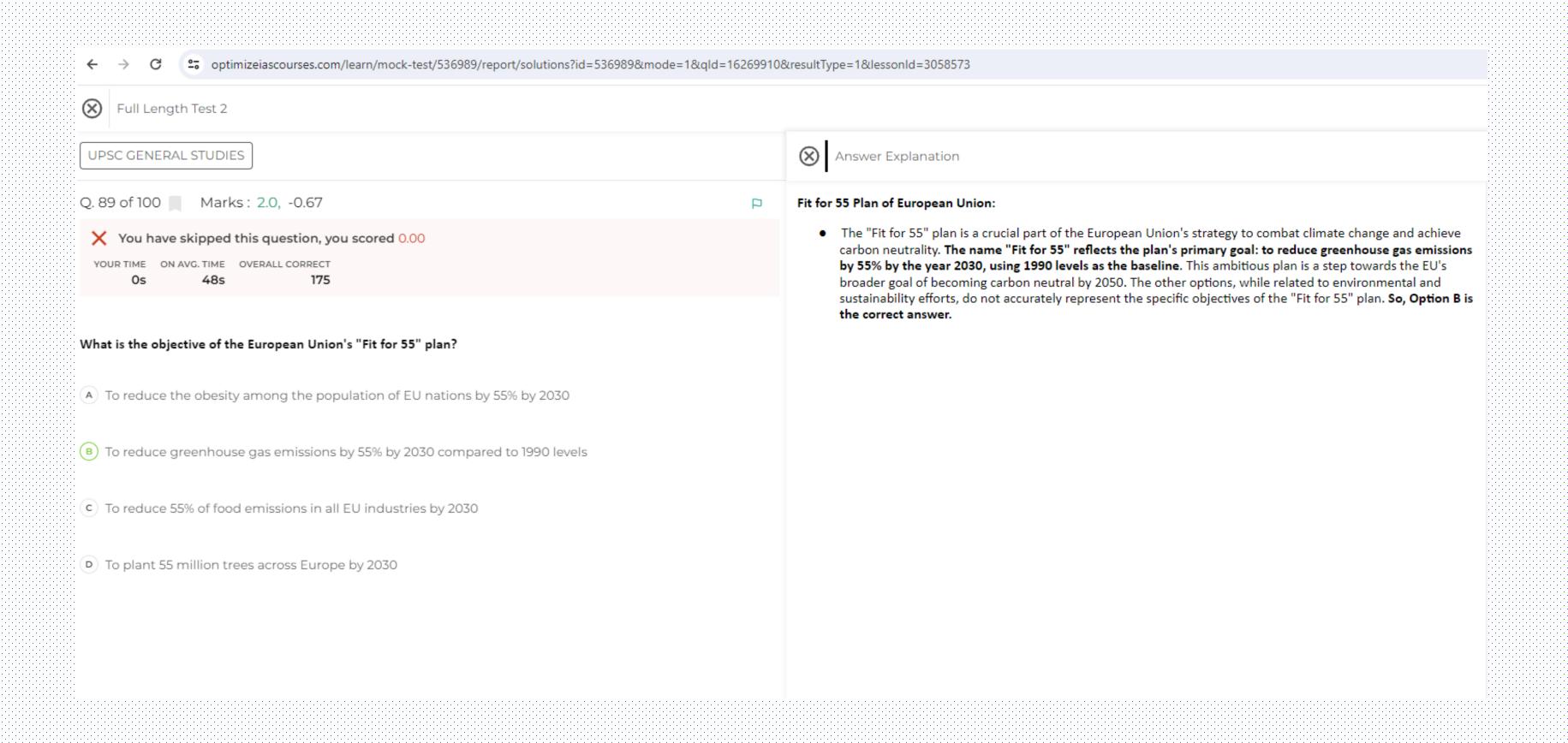
Features

1. Simpler regulatory framework:

- A "Net-Zero Industry Act", which will not only simplify rules but also speed up the issuance of permits for green projects, such as renewable energy generation arrays, carbon capture and renewable hydrogen production facilities.
- A "Critical Raw Materials Act", which will provide access to materials like rare earths that are crucial for developing net-zero technology.

2. Providing faster access to funds:

- The state aid rules will be loosened in order to help EU's 27 governments with investing in the clean energy
- The plan allows countries to take money from existing EU funds. It seeks to direct €250 billion to serve the green industry from the existing EU money, which is around €800 billion.
- "European Sovereignty Fund" in the future to "give a structural answer to the investment needs"



Question No 47

Consider the following statements:

Statement-I:

Recently, Venezuela has achieved a rapid recovery from its economic crisis and succeeded in preventing its people from fleeing/emigrating to other countries.

Statement-II:

Venezuela has the world's largest oil reserves.

Which one of the following is correct in respect of the above statements?

- (a) Both Statement-I and Statement-II are correct and Statement-II explains Statement-I
- (b) Both Statement-I and Statement-II are correct, but Statement-II does **not** explain Statement-I
- (c) Statement-I is correct, but Statement-II is incorrect
- (d) Statement-I is incorrect, but Statement-II is correct



OPTIMIZE IAS QUESTION





Essequibo Region

- Venezuela has claimed the Essequibo region of Guyana since its independence in 1811, disputing the 1899 international border decision.
- The region, larger than Greece, is rich in oil and minerals.
- ExxonMobil discovered oil off the Essequibo coast in 2015.
- The Essequibo River, the largest in Guyana, flows from the Acarai Mountains near the Brazil–Guyana border.



Guyana

- World's fastest-growing economy (62.3% GDP growth in 2022), driven by oil profits, with a projected 100% growth by 2028.
- Located on the northern mainland of South America.
- Meaning "Land of Many Waters" in indigenous language.
- · Capital: Georgetown.
- Third-smallest sovereign state in mainland South America.

Venezuela

- Home to the world's largest known oil reserves.
- Capital: Caracas.
- Colonized by Spain in 1522, became a full sovereign country in 1830 after separating from the Republic of Colombia.

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MAINS MASTER NOTES STUDENT

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Question No 51

Consider the following statements:

Statement-I:

The atmosphere is heated more by incoming solar radiation than by terrestrial radiation.

Statement-II:

Carbon dioxide and other greenhouse gases in the atmosphere are good absorbers of long wave radiation.

Which one of the following is correct in respect of the above statements?

- (a) Both Statement-I and Statement-II are correct and Statement-II explains Statement-I
- (b) Both Statement-I and Statement-II are correct, but Statement-II does not explain Statement-I
- Statement-I is correct, but Statement-II is incorrect
- (d) Statement-I is incorrect, but Statement-II is correct



OPTIMIZE IAS QUESTION

LAQSHYA Test No: 1001 Question No: 95

IN-

-DIRECT QUESTION FROM OUR TESTS
← → C optimizeiascourses.com/learn/mock-test/405763/report/solutions?id=405763&mode=1&d
Test 1001 NCERT - Physical Geography (World)
UPSC GENERAL STUDIES
Q. 95 of 100 Marks: 2.0, -0.67
X You have skipped this question, you scored 0.00
The temperature of air at any place is influenced by ?
1. The latitude of the place
2. The altitude of the place

- 3. The distance from the sea
- 4. The air-mass circulation
- 5. The presence of ocean currents

Select the correct factors using the code given below:

- A) 1, 2, 3 and 4
- B land 4
- c) 1, 3, 4 and 5

IN-DIRECT QUESTION FROM OUR TESTS



Test 1001 NCERT - Physical Geography (World)

UPSC GENERAL STUDIES

Q. 95 of 100 Marks: 2.0, -0.67

You have skipped this question, you scored 0.00

YOUR TIME ON AVG. TIME OVERALL CORRECT 31s

The temperature of air at any place is influenced by?

- 1. The latitude of the place
- 2. The altitude of the place
- 3. The distance from the sea
- 4. The air-mass circulation
- 5. The presence of ocean currents

Select the correct factors using the code given below:

- A) 1, 2, 3 and 4
- B) 1 and 4
- c) 1, 3, 4 and 5
- D All

Answer Explanation

Factors Controlling Temperature Distribution : The temperature of air at any place is influenced by:

- The latitude: The temperature of a place depends on the insolation received. The insolation varies according to the latitude hence the temperature also varies accordingly.
- . The altitude : The atmosphere is indirectly heated by terrestrial radiation from below. Therefore, the places near the sea-level record higher temperature than the places situated at higher elevations. In other words, the temperature generally decreases with increasing height. The rate of decrease of temperature with height is termed as the normal lapse rate. It is 6.5°C per 1,000 m.
- Distance from the sea: Another factor that influences the temperature is the location of a place with respect to the sea. Compared to land, the sea gets heated slowly and loses heat slowly. Land heats up and cools down quickly. Therefore, the variation in temperature over the sea is less compared to land. The places situated near the sea come under the moderating influence of the sea and land breezes which moderate the temperature.
- . Air-mass and Ocean currents: Like the land and sea breezes, the passage of air masses also affects the temperature. The places, which come under the influence of warm airmasses experience higher temperature and the places that come under the influence of cold air-masses experience low temperature. Similarly, the places located on the coast where the warm ocean currents flow record higher temperature than the places located on the coast where the cold currents flow.



OPTIMIZE IAS QUESTION

Question No 52

Consider the following statements:

Statement-I:

Thickness of the troposphere at the equator is much greater as compared to poles.

Statement-II:

At the equator, heat is transported to great heights by strong convectional currents.

Which one of the following is correct in respect of the above statements?

- (a) Both Statement-I and Statement-II are correct and Statement-II explains Statement-I
- (b) Both Statement-I and Statement-II are correct, but Statement-II does not explain Statement-I
- (c) Statement-I is correct, but Statement-II is incorrect
- (d) Statement-I is incorrect, but Statement-II is correct

LAQSHYA Test No: 1001, Question No: 41

← → C ° optimizeiascourses.com/learn/mock-test/405763/report/solutions?id=405763&mode=1&qld=12701537&resultType
Test 1001 NCERT - Physical Geography (World)
UPSC GENERAL STUDIES
Q. 41 of 100 Marks: 2.0, -0.67
X You have skipped this question, you scored 0.00
Consider following statements:
1. Statement 1: Thickness of troposphere is higher at equator than at poles.
2. Statement 2: It is due to high convective activity of winds over the equator.
Which of the following is correct with respect to given statements?
A Both statement I and statement II is correct and statement II is the correct explanation of Statement I.
B Both statement I and statement II are correct and statement II is not the correct explanation of statement I
© Statement I is correct but statement II is not correct
D Statement II is correct but statement I is not correct



OPTIMIZE IAS QUESTION

Question No 53

Consider the following:

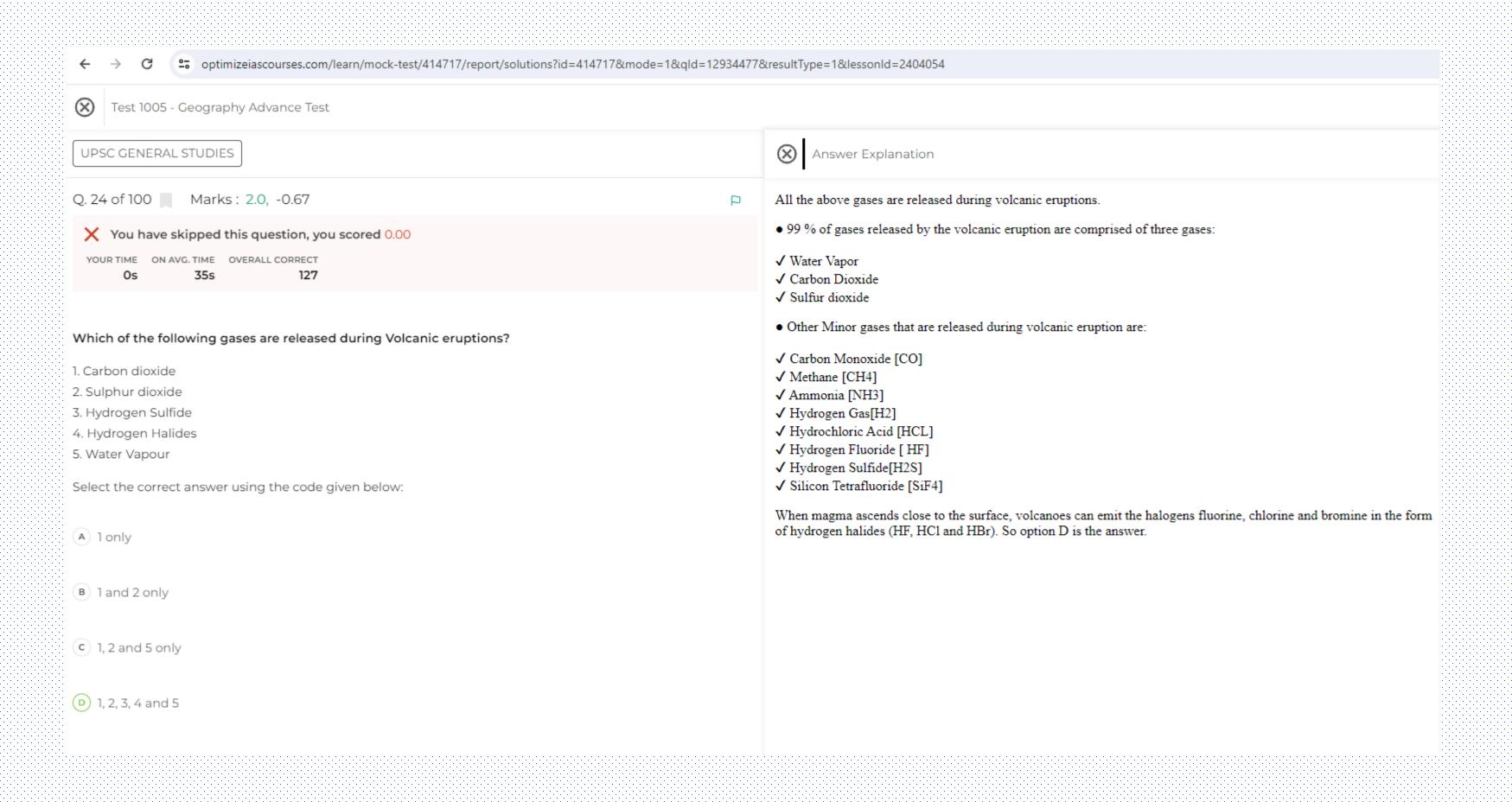
- Pyroclastic debris
- 2. Ash and dust
- Nitrogen compounds
- Sulphur compounds

How many of the above are products of volcanic eruptions?

- (a) Only one
- (b) Only two
- (c) Only three
- (d) All four

LAQSHYA Test No: 1005 Question No: 24

←	optimizeiascourses.com/learn/mock-test/414717/report/solutions?id=414717&mode=1&qld=1293	4778						
\otimes	Test 1005 - Geography Advance Test							
UPS	SC GENERAL STUDIES							
Q. 24	4 of 100 Marks: 2.0, -0.67							
×	You have skipped this question, you scored 0.00							
YOU	OS 35s 127							
Whic	ch of the following gases are released during Volcanic eruptions?							
1. Car	bon dioxide							
2. Su	lphur dioxide							
3. Hydrogen Sulfide								
	drogen Halides							
5. Wa	ater Vapour							
Selec	at the correct answer using the code given below:							
(A) 1	only							
B 1	and 2 only							
© 1	, 2 and 5 only							
D 1	, 2, 3, 4 and 5							



Question No 54

Which of the following is/are correct inference/inferences from isothermal maps in the month of January?

- The isotherms deviate to the north over the ocean and to the south over the continent.
- The presence of cold ocean currents, Gulf Stream and North Atlantic Drift make the North Atlantic Ocean colder and the isotherms bend towards the north.

Select the answer using the code given below:

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2



OPTIMIZE IAS QUESTION

LAQSHYA Test No: 1001 Question No: 67

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\otimes	Tes	st 1001	NCE	RT - P	hysica	l Geo	graphy	(World)									
UP	SC G	ENERA	\L ST	UDIES													:
Q. 6	7 of	100	1	⁄arks	: 2.0,	-0.6	7										p
	UR TIN		AVG. 1	ped ti		L CORRI		scored 0).00								
Con	sider	the fo	llow	ing st	ateme	ents w	vith reg	gards to	distrib	bution o	of temp	oeratur	e glob	ally			
Stat	emer	nt I: Ju	y iso	therm	s are	much	more	deviated	d than	January	/ Isothe	erms in	the No	orthern	n hem	isphere).
Stat	emer	nt II: No	orthe	ern he	misph	ere ha	as mor	e land su	urface	area tha	an Sou	thern h	emisp	here.			
Whi	ch of	the fo	llowi	ng is c	orrec	t with	respec	ct to give	en stat	tements	?						: : : :
A	Both	stater	nent	l and	stater	ment I	l are co	orrect an	nd stat	ement l	II is the	correc	t expla	nation	of sta	atemen	t I.
В	Both I	stater	nent	I and	stater	ment I	l are co	orrect an	nd stat	tement l	II is not	the co	rrect e	xplana	tion o	of stater	ment
С	State	ment	l is co	orrect	but st	atem	ent II is	s not con	rect.								
D	State	ment	l is n	ot cori	ect b	ut stat	temen	t II is con	rect.								



Test 1001 NCERT - Physical Geography (World)

UPSC GENERAL STUDIES

Q. 67 of 100 Marks: 2.0, -0.67

X You have skipped this question, you scored 0.00

YOUR TIME ON AVG. TIME OVERALL CORRECT 63 0s 52s

Consider the following statements with regards to distribution of temperature globally

Statement I: July isotherms are much more deviated than January Isotherms in the Northern hemisphere.

Statement II: Northern hemisphere has more land surface area than Southern hemisphere.

Which of the following is correct with respect to given statements?

- A) Both statement I and statement II are correct and statement II is the correct explanation of statement I.
- Both statement I and statement II are correct and statement II is not the correct explanation of statement
- c) Statement I is correct but statement II is not correct.
- Statement I is not correct but statement II is correct.



Answer Explanation

In general, the effect of the latitude on temperature is well pronounced on the map, as the isotherms are generally parallel to the latitude. The deviation from this general trend is more pronounced in January than in July, especially in the northern hemisphere. In the northern hemisphere the land surface area is much larger than in the southern hemisphere. Hence, the effects of land mass and the ocean currents are well pronounced. In January the isotherms deviate to the north over the ocean and to the south over the continent. This can be seen on the North Atlantic Ocean. The presence of warm ocean currents, Gulf Stream and North Atlantic drift, make the Northern Atlantic Ocean warmer and the isotherms bend towards the north. Over the land the temperature decreases sharply and the isotherms bend towards south in Europe.

Hence D is correct option



OPTIMIZE IAS QUESTION

Question No 55

Which of the following countries are well known as the two largest cocoa producers in the world?

- (a) Algeria and Morocco
- (b) Botswana and Namibia
- (c) Côte d'Ivoire and Ghana
- (d) Madagascar and Mozambique

DIRECT QUESTION FROM DPN

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people nuts

Sub: Geography

Sec: Eco geo

Impact of Soaring Cocoa Prices on Indian Pâtisseries and Bakers

1. Rising Cocoa Prices:

- Global cocoa prices have increased by 110% to 200%.
- Cacao bean prices reached a record \$12,000 per tonne in April.

A combination of El Niño, black pod disease, ageing cacao trees, and inequitable market practices in Ghana and Ivory Coast has contributed to the price hike.

- Predictions indicate cocoa futures could climb to \$20,000 per tonne.

2. Operational Challenges:

- Importers face increased cargo prices due to the West Asia crisis and a weakened rupee (down 10%-12%).
- Prices of imported chocolate brands like Valrhona, Callebaut, and Van Houten have surged by 50%, with potential increases up to 100% by October.
- Supply chain adjustments take 5-6 months to reflect price changes in India.

About Cocoa Bean:

- Also known as cacao, it is the dried, fermented seed of Theobroma cacao, the cacao tree.
- Native to the Amazon rainforest, first domesticated 5,300 years ago by the Mayo-Chinchipe culture in South America, later introduced to Mesoamerica.
- Tree Lifecycle
- Growth: Takes five years to mature.



Anthropogenic weathering

OPTIMIZE IAS QUESTION

Question No 57

Consider the following statements:

Statement-I:

Rainfall is one of the reasons for weathering of rocks.

Statement-II:

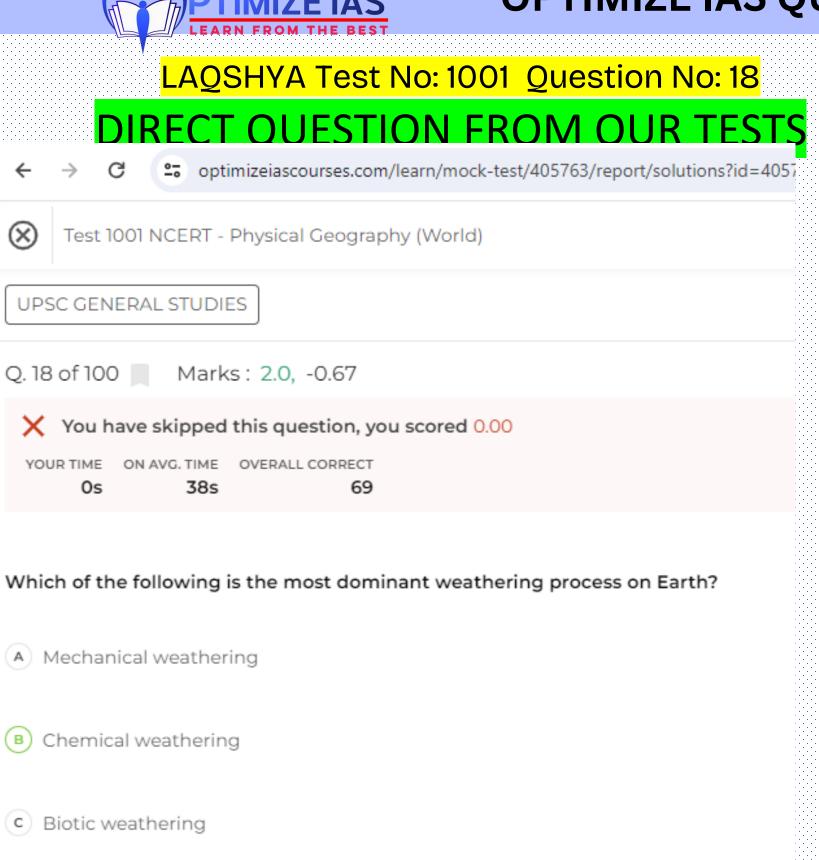
Rain water contains carbon dioxide in solution.

Statement-III:

Rain water contains atmospheric oxygen.

Which one of the following is correct in respect of the above statements?

- Both Statement-III and Statement-III are correct and both of them explain Statement-I
- Both Statement-III and Statement-III are correct, but only one of them explains Statement-I
- Only one of the Statements II and III is correct and that explains Statement-I
- Neither Statement-III nor Statement-III is correct





OPTIMIZE IAS QUESTION

LAQSHYA Test No: 1001 Question No: 18

← → C ºs optimizeiascourses.com/learn/mock-test/405763/report/solutions?id=405763&mode=1&qld=126963	395&resultType=1&lessonId=2344153
Test 1001 NCERT - Physical Geography (World)	
UPSC GENERAL STUDIES	Answer Explanation
Q. 18 of 100 Marks: 2.0, -0.67 You have skipped this question, you scored 0.00 YOUR TIME ON AVG. TIME OVERALL CORRECT Os 38s 69	Mechanical weathering involves moisture and water, free and thaw(frost shattering), insolation (very high diurnal range of temperature, also called Onion weathering) and wind, but mechanical weathering is most dominant in arid hot, arid cold desert which occupy roughly one-third of earth and its effect is very time taking. Hence A is not correct. Chemical weathering involves oxidation by atmospheric oxygen of metallic ions in rocks, rainwater absorbs carbon dioxide and becomes carbonic acid and this weak acid attacks the rocks especially Limestone topography resulting in Karst landscape, but most dominant role is of hydrolysis when carbonic acid dissociates in hydrogen ions H+, These
Which of the following is the most dominant weathering process on Earth? A Mechanical weathering	H+ ions readily dissolve many rock layers into it, since non arid areas occupy maximum of earth, Chemical weathering is the most dominant process. Hence B is the correct answer. Biotic weathering involves plant roots and animal effluents, excreta, burrowing, reworking of soil, this effect is also slow and very miniscule compared to natural forces. Hence C is not the correct answer. Anthropogenic activities of mining, blasting, and quarrying cause huge weathering, but it still has reached the scale of Global chemical weathering. Hence D is not the correct answer.
Chemical weathering Biotic weathering	
Anthropogenic weathering	



OPTIMIZE IAS QUESTION

Question No 58

Consider the following countries:

- Finland
- Germany
- Norway
- Russia

How many of the above countries have a border with the North Sea?

- Only one (a)
- Only two
- Only three (c)
- All four



LAQSHYA Test No: 1043 Question No: 13

← → C optimizeiascourses.com/learn/mock-test/504036?id=504036&mode=0&qld=15293324&resultType=2&less
Test 1043 - Geography Optima Test
UPSC GENERAL STUDIES
Q. 13 of 100
Consider the following countries:
1. United Kingdom
2. Russia
3. Norway
4. Poland
5. Germany
How many of the above countries share boundaries with the North Sea?
Only two
B Only three
© Only four
D All five



NORTH SEA

Why in news?

- The British government is expected to announce dozens of new North Sea oil and gas exploration licences

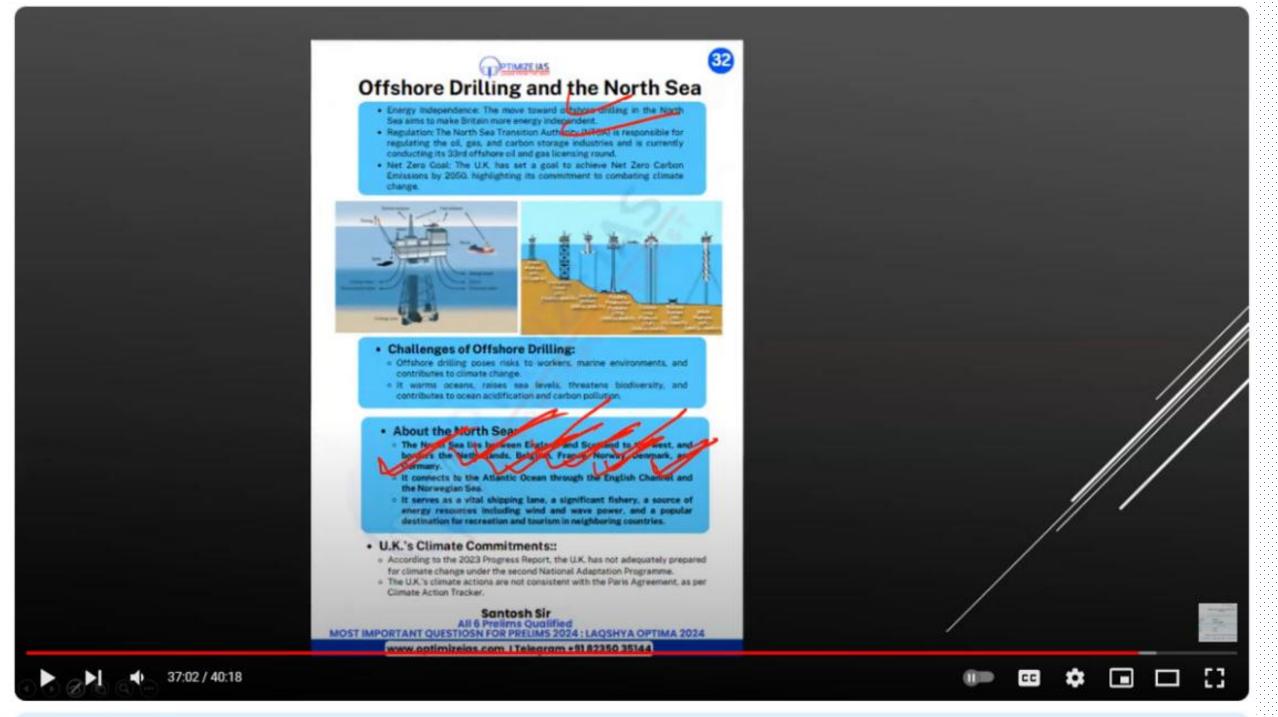
About North Sea

- Geographically, the North Sea lies between England and Scotland on its west, the Netherlands, Belgium, and France on its south, and Norway, Denmark, and Germany on its west
- The North Sea connects to the Atlantic Ocean via the English Channel in the southwest and the Baltic Sea in the east via the Kattegat and Skagerrak straits.
- The Kiel Canal, one of the world's busiest artificial waterways, connects the North Sea with the Baltic.
- It hosts key north European shipping lanes and is a major fishery. The coast is a popular destination for recreation and tourism in bordering countries, and a rich source of energy resources, including wind and wave power.



- Rivers: Major rivers that drain into the North Sea include the Forth, Elbe, the Weser, the Ems, the Rhine and Meuse, the Scheldt, the Thames, and the Humber.
- Ports: It has several major ports located along its coasts, such as Rotterdam, the busiest port in Europe, Antwerp, Hamburg, Bremerhaven and Felixstowe, Port of Bruges-Zeebrugge.





■ Climate change □

United Nations • Climate change refers to long-term shifts in temperatures and weather patterns. Human activities have been the main driver of climate change, primarily due to the burning of fossil fuels like coal, oil and gas.

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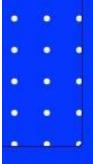






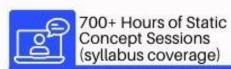


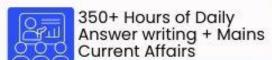
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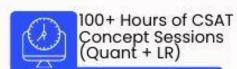


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OPTIMIZE IAS QUESTION

Question No 59

59. Consider the following information:

	Waterfall	Region	River
1.	Dhuandhar	Malwa	Narmada
2.	Hundru	Chota Nagpur	Subarnarekha
3.	Gersoppa	Western Ghats	Netravati

In how many of the above rows is the given information correctly matched?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

LAQSHYA Test No: FLT2 Question No: 42

DIRECT QUESTION FROM OUR TESTS

\otimes	Full Length Test 2	
U	PSC GENERAL STUDIES	
Q.	42 of 100 Marks :	2.0, -0.67
>	You have skipped this	s question, you scored 0.00
Cor	nsider the given pairs:	
	Famous waterfalls	State
	1. Dhuandhar falls	Madhya Pradesh
	2. Rainbow falls	Meghalaya
	3. Sandhan valley falls	Telangana
Ho	w many of the above pairs	are correctly matched?
A	Only one pair	
В	Only two pairs	
С	All three pairs	
D	None	



OPTIMIZE IAS QUESTION

Question No 60

Consider the following information:

	Region	Name of the mountain range	Type of mountain
1.	Central Asia	Vosges	Fold mountain
2.	Europe	Alps	Block mountain
3.	North America	Appalachians	Fold mountain
4.	South America	Andes	Fold mountain

In how many of the above rows is the given information correctly matched?

- (a) Only one
- (b) Only two
- (c) Only three
- (d) All four

LAQSHYA Test No: 1001 Question No: 82

DIRECT QUESTION FROM OUR TESTS

← → C optimizeiascourses.com/learn/mock-test/405763/report/solutions?id=405763&mode=1&qld=12704523&resultType=
Test 1001 NCERT - Physical Geography (World)
UPSC GENERAL STUDIES
Q. 82 of 100 Marks: 2.0, -0.67
X You have skipped this question, you scored 0.00
Consider the following pairs:
mountains types
1. Mt. Kilimanjaro Block mountain
2. Atlas Fold mountain
3. Urals Block mountain
How many of the above pairs is/are correctly matched? Select the correct answer using the code given below:
Only one
B Only two
© Only three
D None of the above

Question No 61

61. The organisms "Cicada, Froghopper and Pond

skater" are :

Birds

Fish

Insects

Reptiles

OPTIMIZE IAS QUESTION

DIRECT QUESTION FROM OPTIMA CARDS













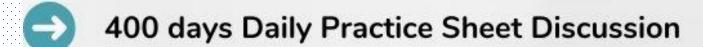
- Divided into two families: Tettigarctidae and Cicadidae.
- Cicadidae has 3,000+ described species worldwide.
- Prominent eyes, short antennae, membranous front
- Known for exceptionally loud songs using tymbals.
- Habitats: trees, feed on watery sap from xylem tissue.
- Lay eggs in bark slits.
- Most cicadas are cryptic.
- Majority are active during the day, some at dawn/dusk.
- Few species are known to be nocturnal.

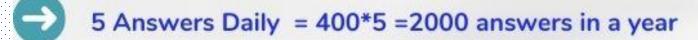
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OPTIMIZE IAS QUESTION

Question No 65

65. Consider the following statements:

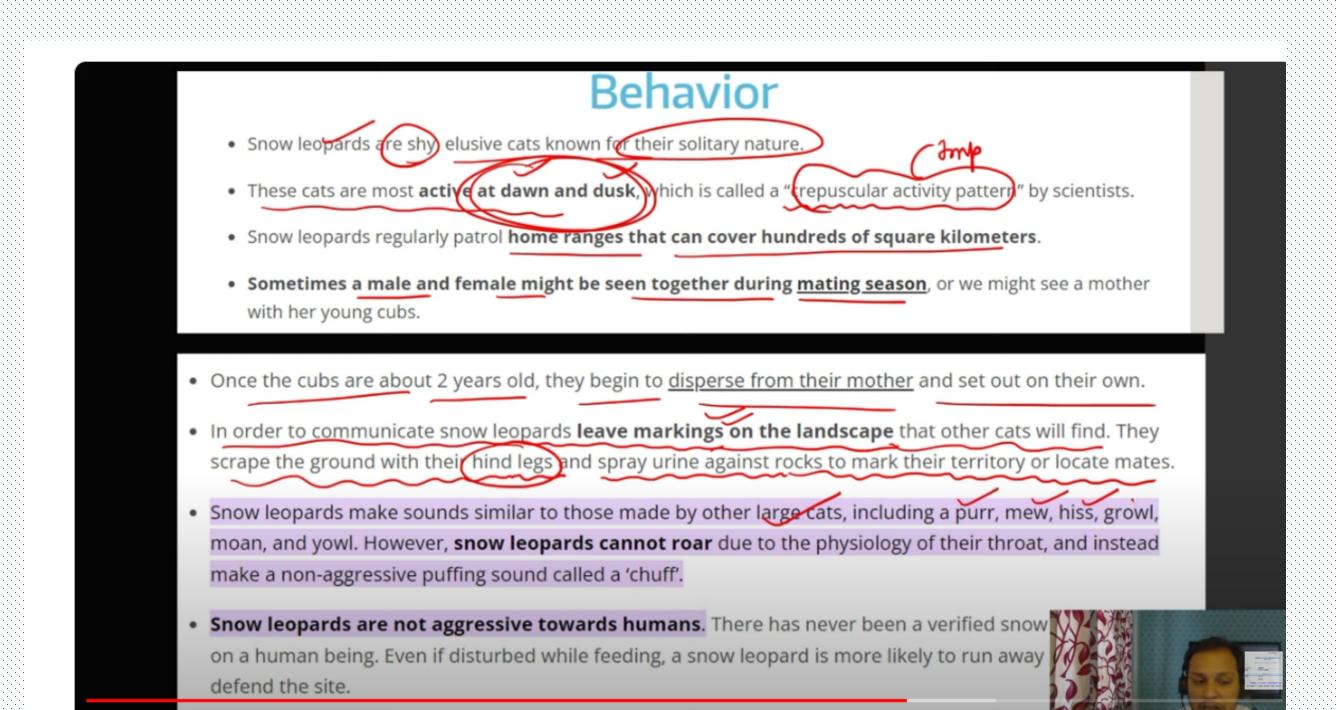
- Lions do not have a particular breeding season.
- Unlike most other big cats, cheetahs do not roar.
- Unlike male lions, male leopards do not proclaim their territory by scent marking.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

LAQSHYA Test No: FLT6 Question No: 5 DIRECT QUESTION FROM OUR TESTS

← → C soptimizeiascourses.com/learn/mock-test/548797/report/solutions?id=548797&mode=1&qld=16633130&resultType=1&lessonId=3111212
Full Length Test 6
UPSC GENERAL STUDIES
Q. 5 of 100 Marks: 2.0, -0.67
X You have skipped this question, you scored 0.00
Consider the following statements:
Statement-1: Unlike other large cats, snow leopards cannot roar.
Statement-2: Snow leopards cannot roar due to the physiology of their throat, and instead make a non-aggressive puffing sound called a 'chuff'.
Which one of the following is correct in respect of the above statements?
A Both Statement-I and Statement u2013 II are correct and Statement- II is the correct explanation for Statement- I
B Both Statement I and Statement II are correct and Statement-II is not the correct explanation for Statement-I.
© Statement- I is Correct but Statement-II is incorrect.
Statement-I incorrect but Statement-II is correct.







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OPTIMIZE IAS QUESTION

Question No 68

Which one of the following shows a unique relationship with an insect that has coevolved with it and that is the only insect that can pollinate this tree?

(a) Fig

t 68.

16

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ing

- (b) Mahua
- (c) Sandalwood
- (d) Silk cotton

DIRECT QUESTION FROM OPTIMA NOTES

indigenous communities.

Properties of Living Roots Bridge:

- They have three main properties:
 - 1. They are elastic,
 - The roots easily combine, and
 - The plants grow in rough and rocky soils.

Process of constructing a living root bridge:

- The structure of the bridge is entirely made from tree branches, trunks, and roots.
- The process begins with placing young pliable aerial roots Ficus Elastica trees in hollowed-out trunks of the Areca Catechu

Ficus Trees

- Keystone role in nature.
- They hold the ecosystem together and promote biodiversity around them.
- They are hospitable to birds and bats (seed-dispersing animals) that feed on their fruits.
- They stabilise the soil with their root system and prevent landslides.
- Meghalaya government Draft Guidelines for Protection of Living Root Bridge:
- Underpinned by science-based approaches and community participation.
- Zone-based conservation and a responsible development approach for regulating activities, including tourism. For example, the proposed Zone I suggest declaring at least approximately 30 meters from the core LRB structure as a protected area.
- Determine the gene pool of both the trees and of the pollinators (eg. fig wasp pollinator).
- Raise awareness levels among tourists and students about the root bridges.
- The guidelines also emphasise forming Village Cooperative



The amount of water vapour is fixed in the atmosphere.

OPTIMIZE IAS QUESTION

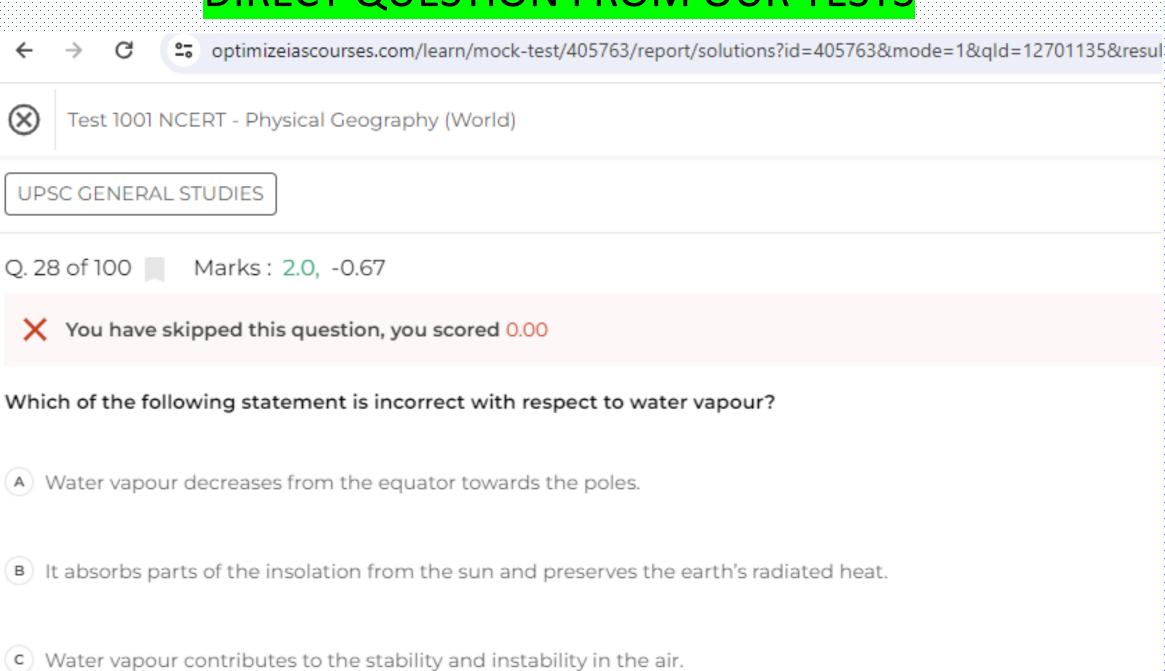
Question No 72

- With reference to "water vapour", which of the following statements is/are correct?
 - It is a gas, the amount of which decreases with altitude.
 - Its percentage is maximum at the poles. Select the answer using the code given below:
 - 1 only
 - 2 only
 - Both 1 and 2
 - Neither 1 nor 2



LAQSHYA Test No: 1001 Question No: 28

DIRECT QUESTION FROM OUR TESTS





OPTIMIZE IAS QUESTION

Question No 73

Consider the following description:

- Annual and daily range of temperatures is low.
- Precipitation occurs throughout the year.
- Precipitation varies between 50 cm - 250 cm.

What is this type of climate?

- Equatorial climate
- China type climate
- Humid subtropical climate
- Marine West coast climate



Climate Types- G C LEONG Temperature and Precipitation Region **Special Features** Climate Type High Temperature ·Shifting cultivation, Tropical Rainforest. High Rainfall ·Hunting and gathering, ial Climate • Low Diurnal and Annual Range of Temperature •Trees - ebony, mahogany, cocoa, palm ·plantation agriculture in southeast asia -Congo, Sumatra, Java, Singapore, •Undergrowth is not dense Rainfall Throughout the year (Convectional oil,hardwood Colonial legacy Malaysia Multiple species soil is not fertile Lumbering is not very profitable No winter Agriculture, Lumbering, Jute, Sugarcane, •Deciduous (most abandoned in india - Moist •Indian sub-continent. Burma. Thailand. •The Retreating Monsoon--The amount and plantation deciduous forest). Three distinct seasons timber that it is extensively used for ship Laos, Cambodia, frequency of rain decreases towards the end of ·forests yield timber, and are prized for their seasonal reversal of trade winds. building, furniture and other constructional •East Africa. Madagascar, the Guinea Coast the rainy season durable hardwood Rainfall concentrated in summer months • south west monsoon replaced by North east ·sal, teak, bamboo, acacia, eucalyptus Rice, cotton and plantation Tribal shifting cultivation than deserts • Alternate hot, rainy reason season and cool, dry • Tall grass, short trees, desert plants like acacia · Extreme diurnal temperature are also found, trees have long roots, grass not Pastoralists Sudan Africa, South America Irrigation is needed for crop cultivation Big Game Country climate · Laterite Soil - Leaching Droughts are long Unreliable Rainfall Onshore westerlies and offshore trade winds shifting of the wind belts Mediterranear viticulture. countries •Rainfall normally 25 inches Trees, Oaks, pines, firs, shrubs and bushes orchard farming, olive oil around mediterranean sea, california absence of shade - though there are many •Winter rainfall branches but the trees carry few leaves Snowfall, bitter cold, brief summer, frost •Evergreen coniferous trees - taiga, softwood Northern ·pure stands of only a few species - Unlike and pulp industry, furniture making, ·High Annual range of temperature and low diu al •Vegetation merge with tundra vegetation Climate Europe, Russia - near the arctic circle equatorial climate towards north lumbering, fur farms range Semi-Nomadic reg<mark>ion, gr</mark>eenland and high altitude region •Sunlight only for 6 months, 6 months no sunlight low temperature throughout the year. Very few Life, large farms in russia, discovery of •Tundra region-- Plain region north or ice free months, fog mosses, sedges - No trees found in tundra Freeze and thaw mechanism minerals (in arctic) blizzards, convectional rainfall is absent arctic which remain Ice free for few months Ranching, pastoral farming (Beef export), •Central asia, north america, argentina, Temperate grasslands •Extreme climate - Continentality •Grasslands, trees are very scarce nomadic herding, wheat cultivation australia, south africa Prairies, Pustaz, Steppes, pampas, pretoria, veld, •The steppe grass can lie dormant throughout Summers are warm and winter can be snow •They are granaries of the world and •Continental region east of mediterranean downs and canterbury are famous grasslands in the prolonged drought extensive farming regions Desert could be sure to continentality, offshore Cacti, Xerpphytic Nomadic •High Annual and Diurnal range of temperature Sahara, Mohave, Namib, Australia desert Herdsmen, Mining (Africa, Australia, acacia, babool, succulent stems, waxy leaves, Desert • Rainfall scanty - less than 10 inches Atacama, australian, kalahari Major desert located on the western coasts of Chile),Livestock, caravan traders continent between 15-30 N •Warm temperate eastern marain •Offshore westerlies and onshore easterlies ·more rainfall than the Mediterranean climate •Temperate evergreen broad-leaved forests and •Cotton, maize, rice are main crops Gulf region Warm ocean currents warm moist summer and a cool dry Beijing region south of laurentian type deciduous trees warm temperate monsoon Type/ Gulf type winte good agricultural regions • in New South Wales--Australia; in Natal- Hardwood trees (conifers) various winds includes pampero (Argentina). ·fairly uniform distribution of rainfall throughout Africa; and Paraguay- Uruguay basin. Berg(Africa), and southerly busters (Australia) the year · Western margins of siberian type climate The cool temperate western margins Temperate deciduous forest ·Huae industrial arowth due to fav. climate British Islands and norway British ·coastlands of British Columbia (Rockies annual temperature range of only 24°F. Hardwood trees Forests are largely cleared Onshore westerlies Well distributed rainfall areater lumberina value mixed farming, sheep rearing and prevent onshore winds) warm ocean currents · winters very mild and the summers are cool Sparse undergrowth Marketing gardening •southern Chile, Tasmania and most parts of New Zealand, •Lumbering and its associated timber, pape Both maritime and continental and pulp Cool Temperate Eastern margin north-eastern North America, including Offshore westerlies region and impact of ocean cool temperate forest. industries Between British and siberian eastern Canada, north-east U.S.A winds causing rainfall in summer North of 50 degree -- coniferous and softwood Fishing--since cold current and warm climate has cold, dry winters and warm, wet •The Laurentian type of climate is often described

current meet off the coast of these regions

•Summer crops in Agriculture--Soya, oats

as the Cool Temperate Monsoon

Climate

South -deciduous hardwood



OPTIMIZE IAS QUESTION

Question No 74

- With reference to "Coriolis force", which of the following statements is/are correct?
 - 1. It increases with increase in wind velocity.
 - 2. It is maximum at the poles and is absent at the equator.

Select the answer using the code given below:

- 1 only
- Both 1 and 2
- Neither 1 nor 2

DIRECT QUESTION FROM DPN



ABOUT US FREE INITIATIVES COURSES

May 4, 2024 Posted by: OptimizeIAS Team Category: DPN

No Comments

Daily Prelims Notes

4 May 2024

1. Cyclone Hidaya to slam into Tanzania south of Dar es Salaam; Ruto puts Kenya on alert

Subject: Geography

Sec: Climatology

Context:

- Cyclone Hidaya ('Guidance' in Arabic and 'Gift' in Swahili) is expected to hit the Tanzanian coast near Dar es Salaam from the Indian Ocean on May 4, 2024.
- Places affected: The coast of Mtwara, Lindi, Pwani, Dar es Salaam, Tanga, Morogoro, and the islands of Unguja and Pemba. All are part of Tanzania.

Details:

- The cyclone developed over the South Indian Ocean and has been named by the French meteorological service, Meteo France's centre in the Indian Ocean French Overseas Department of La Reunion.
- East Africa, including Kenya, Tanzania, and Burundi, has already experienced significant flooding since March, resulting in 350 deaths and widespread property damage.

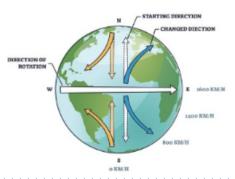
Why tropical cyclones don't form near or cross Equator?

- This is because of the lack of the Coriolis force. What is that? It is an apparent force caused by the rotation of the Earth. It is named after French mathematician Gaspard Gustave de Coriolis who investigated energy in

Coriolis Effect:

- Earth's circumference is largest at the equator. This means anything standing on the equator is moving faster eastward than anything lying away from the equator — anything on the equator is traveling a greater distance than anything north or south on Earth's surface in the same amount of time.
- If air moves north from the equator, it will also still flow quickly eastward compared with its new surroundings. This means air traveling north from the equator will appear to veer right. In contrast, air flowing south from the equator will appear to stray left.
- This phenomenon, known as the Coriolis effect, helps control the direction in which tropical cyclones spin. In the Northern Hemisphere, rightward-turning air will create a counterclockwise spinning motion, and the opposite will occur in the Southern Hemisphere.

CORIOLIS EFFECT



DIRECT QUESTION FROM PPP

1.

Consider the following statements:

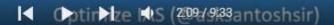
Statement-I: Tropical cyclone does not form over the equator

Statement-II: The temperature over equator is relatively higher

Which one of the following is correct in respect of the above statements?

- Both Statement-I and Statement-II are correct and Statement-II is the correct explanation for Statement-I
- Both Statement-I and Statement-II are correct and Statement-II is not the correct explanation for Statement-I
- Statement-l is correct but Statement-ll is incorrect
- Statement-I is incorrect but Statement-II is correct





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#iaswithsantosh #iasprep ...more

Question No 75

- 75. On June 21 every year, which of the following latitude(s) experience(s) a sunlight of more than 12 hours?
 - Equator
 - Tropic of Cancer
 - Tropic of Capricorn
 - Arctic Circle

Select the correct answer using the code given below:

- (a) 1 only
- (b) 2 only
- (c) 3 and 4
- (d) 2 and 4



OPTIMIZE IAS QUESTION

DIRECT QUESTION FROM OUR NOTES

Implications:

- The days become a little longer at the higher latitudes (those at a distance from the equator) because it takes the sun longer to rise and set.
- The solstices, together with the equinoxes, are connected with seasons, harvests and livelihood.
- Therefore, many cultures celebrate various combinations of the solstices, the equinoxes, and the midpoints between them, leading to various holidays arising around these events.



Solstices (Summer & Winter)

- The two solstices happen in June (20 or 21) and December (21 or 22). These are the days when the Sun's path in the sky is the farthest north or south from the Equator.
- In the Northern Hemisphere, the June solstice marks the start of summer, this is when the North Pole is tilted closest
 to the Sun, and the Sun's rays are directly overhead at the Tropic of Cancer.
- The summer solstice occurs when the sun is directly over the Tropic of Cancer which is located at 23.5° latitude North
 and for every place north of the Tropic of Cancer, the sun is at its highest point in the sky and this is the longest day of the
 year.
- The winter solstice marks the shortest day and longest night of the year, it occurs when the sun is directly over the Tropic of Capricorn, which is located at 23.5° south of the equator.

Question No 76

One of the following regions has the world's largest tropical peatland, which holds about three years worth of global carbon emissions from fossil fuels; and the possible destruction of which can exert detrimental effect on the global climate. Which one of the following denotes that region?

- (a) Amazon Basin
- (b) Congo Basin
- (c) Kikori Basin
- (d) Rio de la Plata Basin



OPTIMIZE IAS QUESTION

DIRECT QUESTION FROM OPTIMA CARS

Environment



Brazzaville Declaration

Singed jointly by:

 Democratic Republic of Congo (DRC), Republic of Congo, and Indonesia
 Objective:

 Promote better management and conservation of the world's largest tropical Peatlands-Cuvette Centrale region in the Congo Basin

Location:

- Global Peatlands Initiative held in Brazzaville, Republic of Congo
- Peatlands are wetlands that contain a mixture of decomposed organic material, partially submerged in a layer of water, lacking oxygen
- The Cuvette Centrale region in Congo Basin is world's largest natural tropical peatlands



SANTOSH SIR (ALL 6 PRELIMS QUALIFIED)

IMPORTANT EXPECTED QUESTIONS FOR PRELIMS 2024

Question No 77

- 77. With reference to perfluoroalkyl and polyfluoroalkyl substances (PFAS) that are used in making many consumer products, consider the following statements : PFAS are found to be widespread in
 - drinking water, food and food packaging PFAS are not easily degraded in the
 - Persistent exposure to PFAS can lead to bioaccumulation in animal bodies.

Which of the statements given above are

- 1 and 2 only
- 2 and 3 only
- 1 and 3 only
- 1, 2 and 3



OPTIMIZE IAS QUESTION

DIRECT QUESTION FROM OUR ENV OPTIMA

In the news: An entire street in Abohar city of Fazilka district is colloquially known as "cancer street", as a large number of cancer cases are reported among the residents.

Cause: Water contaminated with high levels of arsenic

POLLUTANTS	RISK ASSOCIATED	
Arsenic	 Ingestion of high levels of arsenic is an accepted cause of bladder cancer. 	
Disinfection Byproducts	 Chlorine interacts with organic materials in water to form a mixture of DBPs. Some chemicals in the mixture may increase cancer risk. 	
Nitrate	 Contamination of drinking water by nitrate is a growing problem in many agricultural areas of the country. Ingested nitrate can lead to the endogenous formation of N-nitroso compounds (NOC), which are potent animal carcinogens. 	
Per- and Polyfluoroalkyl Substances (PFAS) or Forever chemicals	 Perfluorooctanoic acid (PFOA), the most well-studied per- and poly-fluoroalkyl substances (PFAS), is a possible human carcinogen. 	

2022 WINTER AIR IN DELHI NCR 'CLEANEST' IN FIVE YEARS BUT 'TOXIC'

Context: There was heavy and extended rainfall in the early phases of the season that prevented smog episodes from building up, says CSE report.

85

Question No 80

80. Consider the following statements:

Statement-I:

The Indian Flying Fox is placed under the "vermin" category in the Wild Life (Protection) Act, 1972.

Statement-II:

y of

The Indian Flying Fox feeds on the blood of

Which one of the following is correct in respect of the above statements?

- (a) Both Statement-I and Statement-II are correct and Statement-II explains Statement-I
- (b) Both Statement-I and Statement-II are correct, but Statement-II does not explain Statement-I
- (c) Statement-I is correct, but Statement-II is incorrect
- (d) Statement-I is incorrect, but Statement-II is correct



OPTIMIZE IAS QUESTION



ABOUT US FREE INITIATIVES COURSES

FLYING FOX BATS FOR VIGILANCE WHILE DAY-ROOSTING, FINDS STUDY

(August 13, 2023 Posted by: OptimizeIAS Team Category: DPN Topics

No Comments

Flying fox bats for vigilance while day-roosting, finds study

Subject :Environment

Section: Species in news

Context:

 India's largest species of bats, named after a canine fabled to be sly, spends 7% of its day-roosting time being environmentally vigilant, a new study has said.

Flying fox bats:

- Pteropus (suborder Yinpterochiroptera) is a genus of megabats which are among the largest bats in the
- They are commonly known as fruit bats or flying foxes, among other colloquial names.
- They live in South Asia, Southeast Asia, Australia, East Africa, and some oceanic islands in the Indian and Pacific Oceans.
- Flying foxes eat fruit and other plant matter, and occasionally consume insects as well.
- They locate resources with their keen sense of smell. Most, but not all, are nocturnal. They navigate with keen eyesight, as they cannot echolocate.
- There are at least 60 extant species in the genus.
- They are generally considered a vermin as they raid orchards.
- It had a similar official status under the Schedule V of the Wildlife (Protection) Act of 1972 until it was put on the Schedule II list, entailing a higher degree of protection.
- Ecological role:
- It is a keystone species.
- A keystone species is one that has a disproportionately large effect on its natural environment relative to its abundance, impacting many other organisms in an ecosystem and helping to determine the types and numbers of other species in an ecological community.

Question No 81

- The total fertility rate in an economy is
 - the number of children born per 1000 people in the population in a year.
 - the number of children born to a couple in their lifetime in a given population.
 - the birth rate minus death rate. (c)
 - the average number of live births a woman would have by the end of her



OPTIMIZE IAS QUESTION



ABOUT US FREE INITIATIVES COURSES

INDIA'S BIRTH CRISIS: WHAT THE LANCET **FORECAST OF FERTILITY RATE DIP TO 1.29 BY 2050 MEANS**

March 25, 2024 Posted by: OptimizeIAS Team

Category: DPN Topics

No Comments

India's birth crisis: What the Lancet forecast of fertility rate dip to 1.29 by 2050 means

Subject: Geography

Section: Human Geo

Context:

- A recent study published in The Lancet warns that India's total fertility rate (TFR), or births per woman, will fall to 1.29 by 2050.

More on news:

- By 2050, one in five Indians will be a senior citizen while there will be fewer younger people to take care of them.
- India's total fertility rate (TFR) the average number of children born per woman is dipping irreversibly to 1.29, far lower than the replacement rate of 2.1.
- This means a rapidly depleting working age population.

Question No 83

- In India, which of the following can trade in Corporate Bonds and Government Securities?
 - **Insurance Companies**
 - Pension Funds
 - Retail Investors

Select the correct answer using the code given below:

- 1 and 2 only
- 2 and 3 only
- 1 and 3 only
- 1, 2 and 3



OPTIMIZE IAS QUESTION



ABOUT US FREE INITIATIVES COURSES

SEBI LOOKING AT STANDARDISATION IN THE CORPORATE BOND MARKET

(August 4, 2023 Posted by: OptimizeIAS Team Category: DPN Topics

No Comments

SEBI looking at standardisation in the corporate bond market

Subject : Economy

Section: Capital Market

In News: SEBI is looking at standardisation in the corporate bond market in a big way on the lines of the G-Secs market.

Key Points:

- G-Sec market is very liquid because the coupon payments, the day count, among others, are standardised. In the case of G-Sec, the coupon payment dates are half yearly (July 8 and January 8).
- A standardised corporate bond issue would have a minimum notional size, pay interest semi-annually and mature on one of four fixed quarterly redemption dates
- Beyond AAA rated bonds:
- SEBI is set to emphasise on the need to go down the rating scale as about 97 per cent of the bond issuances are from the top three rating categories — AAA, AA+ and AA.
- Compared to this the US only has 5 per cent of corporates are in the AAA and AA bucket, and about 75 per cent of the trading happens in the A, BBB, BB rating categories
- Bank dependence for credit:
- Although banks are in good state it actually doesn't help the bond markets because the banking system's
- At present most of the bond issuances are in the NBFC segment. So, we hardly get any issuances from manufacturing and other segments.



OPTIMIZE IAS QUESTION

7

Question No 86

86. Consider the following materials:

- Agricultural residues
- Corn grain
- Wastewater treatment sludge
- Wood mill waste

Which of the above can be used as feedstock for producing Sustainable Aviation Fuel?

- (a) 1 and 2 only
- (b) 3 and 4 only
- (c) 1, 2, 3 and 4
- (d) 1, 3 and 4 only



Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA)

CORSIA IMPLEMENTATION

- Assembly Resolution A41-22
 - EN FR SP RU AR ZH
- Reservation to Resolution A41-22
- · SARPs Annex 16 Volume IV
- · Environmental Technical Manual Volume IV
- » Templates
- ICAO CORSIA Implementation Elements
- » CORSIA States for Chapter 3 State Pairs
- » ICAO CORSIA CO₂ Estimation and Reporting Tool (CERT)
- » CORSIA Eligible Fuels
- » CORSIA Eligible Emissions Units
- » CORSIA Central Registry (CCR)

Additional Material for CORSIA Implementation

Status of CORSIA Implementation



ACT >>> CORSIA

- CORSIA Buddy Partnerships
- · Examples of Good Practice
- » Model regulations
- » CO₂ Aggregation
- · Frequently Asked Questions
- · Brochure and Leaflets
- Videos (Navigating CORSIA)
- Seminars
- Background Information



CORSIA is a global market-based measure developed by the Global Measure International Civil Aviation Organization (ICAO) to offset international aviation CO2 emissions. The scheme aims to stabilize CO2 emissions at 2020 levels by requiring Stabilization airlines to offset the growth of their emissions after 2020. Offsetting Airlines can offset their emissions by purchasing carbon credits from Mechanism projects that reduce, avoid, or remove greenhouse gas emissions. Airlines can also use CORSIA-eligible fuels, which are sustainable aviation Sustainable fuels that generate fewer emissions over their life cycle than **Aviation Fuels** conventional jet fuels. CORSIA complements other measures the aviation industry is taking to Complementary reduce its carbon footprint, including improvements in technology and Approach operations, and the use of sustainable aviation fuels. CORSIA will be implemented in phases, starting with voluntary Implementation participation from 2021 to 2026, followed by mandatory participation for most States from 2027.

Santosh Sir
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OPTIMIZE IAS QUESTION

optimizeias.com/countries-must-be-allowed-to-prepare-own-plans-for-saf-india/



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COUNTRIES MUST BE ALLOWED TO PREPARE OWN PLANS FOR SAF: INDIA

() June 1, 2023 Posted by: OptimizeIAS Team Category: DPN Topics

No Comments

Countries must be allowed to prepare own plans for SAF: India

Subject : Economy

Section : Msc

Concept:

- India on Wednesday asserted that global mandates for Sustainable Aviation Fuel with 2050 as the target year was "too early" and that each State must be allowed to develop its strategy as per its national plans.
- It also sought support from the UN Aviation watchdog ICAO to achieve carbon net zero goals alongside other priorities in the aviation sector such as growing aspirations of passengers.
- The 41st International Civil Aviation Organisation (ICAO) Assembly adopted a long-term global aspirational goal (LTAG) for international aviation of net-zero carbon emissions by 2050 in support of the UNFCCC Paris Agreement's goal to limit global warming to 1.5 degree celsius and reach net zero by 2050.
- This was preceded by a resolution at the 77th IATA Annual General Meeting in Boston, USA, on October 4, 2021, where a resolution was passed by member airlines committing them to achieving net-zero carbon emissions from their operations by 2050.

Sustainable Aviation Fuel (SAF)

- Sustainable Aviation Fuel (SAF), also referred to as bio-jet fuel, is created using domestically developed methods using cooking oil and oil-rich seeds from plants.
- The SAF samples produced by the institutes are undergoing strict testing at the US Federal Aviation Administration Clearinghouse to meet the standards required for the ASTM D4054 certification from ASTM International.
- Sources of Production:
- The CSIR-IIP has created fuel using different materials, such as non-edible and edible oils, as well as used
- They used various sources, including palm stearin, sapium oil, palm fatty acid distillates, algae oil, karanja, and jatropha.



OPTIMIZE IAS QUESTION

Question No 87

With reference to physical capital in Indian economy, consider the following pairs:

	Items	Category
1.	Farmer's plough	Working capital
2.	Computer	Fixed capital
3.	Yarn used by the weaver	Fixed capital
4.	Petrol	Working capital

How many of the above pairs are correctly matched?

- Only one
- Only two
- Only three
- All four



LAQSHYA Test No: 1014 Question No: 71

DIRECT QUESTION FROM OUR TESTS

 (\times)

Test 1014 - NCERT Micro & Macro Economics

UPSC GENERAL STUDIES

Q. 71 of 100

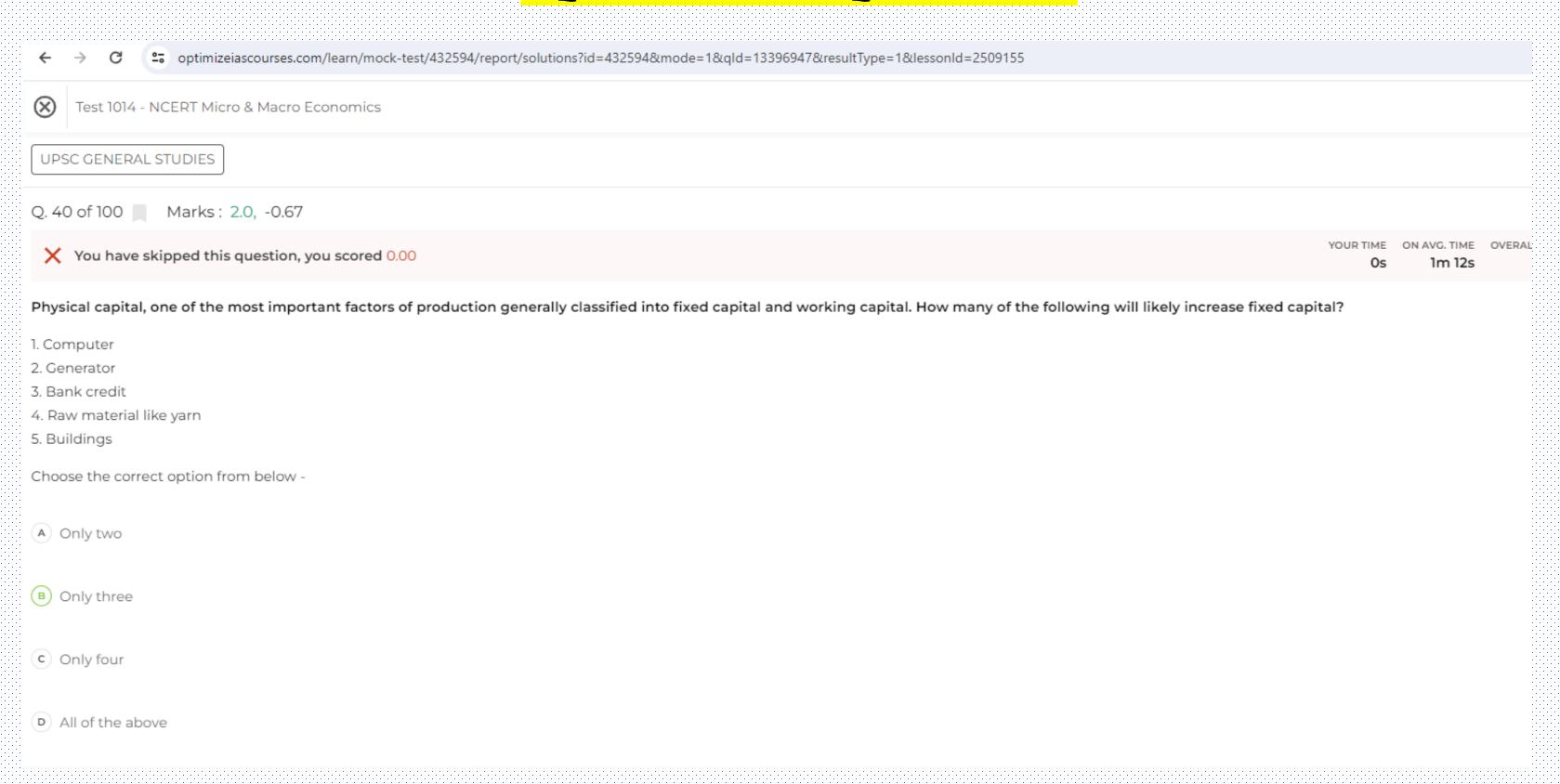
Marks: 2.0, -0.67

You have skipped this question, you scored 0.00

Which of the following best describes working capital?

- A Capital assets minus capital liabilities
- B Capital assets minus current liabilities
- c Current assets minus capital liabilities
- Current assets minus current liabilities

LAQSHYA Test No: 1014 Question No: 40





OPTIMIZE IAS QUESTION

Question No 88

- Which one of the following words/phrases is most appropriately used to denote "an interoperable network of 3D virtual worlds that can be accessed simultaneously by millions of users, who can exert property rights over virtual items"?
 - (a) Big data analytics
 - (b) Cryptography
 - (c) Metaverse
 - (d) Virtual matrix

DIRECT QUESTION FROM OUR HITLIST

Information and Communication

- BharOS
- MayaOS
- Net neutrality
- VPN
- Facial Recognition Tool
- SaMD and SiMD Technology
- Digital Public Infrastructure (DPI), Digital public good
- India Stack and digital adoption
- Digital Public Goods Alliance (DPGA)
- Agri stack
- Space-Based Internet
- Cookies
- Digital Consent Acquisition (DCA)
- QR Codes
- End-to-end encryption
- Metaverse
- Digital Marketing Act (DM), Digital Services Act



With reference to the rule/rules imposed by the Reserve Bank of India while treating foreign banks, consider the following statements:

- There is no minimum capital requirement for wholly owned banking subsidiaries in India.
- For wholly owned banking subsidiaries in India, at least 50% of the board members should be Indian nationals.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2



OPTIMIZE IAS QUESTION

DIRECT QUESTION FROM OUR ECO OPTIMA

Foreign Banks in India

Context: The proposed takeover of Swiss bank Credit Suisse by its bigger rival UBS

What are foreign Banks?

79

Financial institutions that serve customers outside of their own country are referred to as "Foreign Banks." A
Foreign Bank branch operates as a kind of international bank, subject to the regulations of both its home country
and the country in which it has a physical presence. As of the year 2022, 46 international banks have established
operations in India, as reported by the country's central bank. A total of 45 international banks operate in India,
with most of their roughly 300 branches concentrated in the country's largest cities.

Why are they important?

Foreign companies operating in a country may have a positive impact in two ways: they can raise the volume of the country's exports and imports, and they can provide more job possibilities for the country's skilled workers.

Functioning of foreign Banks:

Foreign banks in India account for only 1% of the country's branch network, but they contribute 11% of the country's banking sector profits.



ABOUT US FREE INITIATIVES COURSES

Foreign Banks in India

Subject : Economy

Section: Monetary Policy

Context: The proposed takeover of Swiss bank Credit Suisse by its bigger rival UBS

What are foreign Banks?

- Financial institutions that serve customers outside of their own country are referred to as "Foreign Banks." A Foreign Bank branch operates as a kind of international bank, subject to the regulations of both its home country and the country in which it has a physical presence. As of the year 2022, 46 international banks have established operations in India, as reported by the country's central bank. A total of 45 international banks operate in India, with most of their roughly 300 branches concentrated in the country's largest cities.
- Their presence but their presence is relatively small—with a 6 per cent share in total assets,4per cent in loans, and 5 per cent in deposits. They are more active in the derivative markets (forex and interest rates), where theyhavea50per cent share. Most are there as branches of the parent bank, with only a few present as a wholly owned subsidiary. But they retain capital, liquidity, and make annual report disclosures similar to Indian banks. The five biggest foreign banks in India by assets are HSBC, Citibank(which has sold its consumer business to Axis), Standard Chartered, Deutsche Bank, and JP Morgan Chase (the largest US bank)

Why are they important?

Foreign companies operating in a country may have a positive impact in two ways: they can raise the volume of the country's exports and imports, and they can provide more job possibilities for the country's skilled workers.

Functioning of foreign Banks:

Foreign banks in India account for only 1% of the country's branch network, but they contribute 11% of the country's banking sector profits. This is because these banks are specialised in areas like trade finance, wholesale lending, external commercial borrowing, treasury service, and investment banking rather than general retail banking.

Question No 91

With reference to radioisotope thermoelectric generators (RTGs), consider the following statements:

- RTGs are miniature fission reactors.
- RTGs are used for powering the onboard systems of spacecrafts.
- RTGs can use Plutonium-238, which is a by-product of weapons development.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3



OPTIMIZE IAS QUESTION

DIRECT QUESTION FROM OUR SCI OPTIMA

The Legacy of the Voyager Mission

Context: NASA detected a "heartbeat" signal from Voyager 2 more than a week after losing communication with the spacecraft.

What is the Voyager mission?

- The Voyager mission was launched in 1977, with Voyager 2 launched on August 20, followed by Voyager 1 on September 5.
- The Voyager spacecraft were designed to take advantage of a rare planetary alignment that occurs
 approximately every 175 years, allowing for efficient trajectories between planets.
- Voyager 1 and Voyager 2 were originally planned to explore only Jupiter and Saturn, but their success led to
 extended missions to Uranus, Neptune, and beyond.

Why were the Voyager spacecraft sent into space?

- The original Grand Tour mission, which aimed to explore all five outer planets, was canceled due to budget constraints and technical challenges.
- Voyager 1 and Voyager 2 were smaller, lighter, and less costly, making them a more feasible option for planetary exploration.

179

 The gravitational assists from Jupiter and Saturn allowed the spacecraft to continue their missions to Uranus, Neptune, and interstellar space.

What is the radioisotope thermoelectric generator (RTG)?

- Spacecraft power source using heat from radioactive decay.
- Utilizes isotopes of plutonium, like plutonium-238.
- · Converts heat into electricity through thermoelectric conversion.

What are the golden phonograph records on Voyager spacecraft?

- The idea for the golden records came from a committee chaired by astronomer Carl Sagan and was intended
 to showcase the best of humanity.
- The records include greetings in 55 languages, music from different cultures and eras, and natural sounds from Earth.

What are the notable achievements of the Voyager spacecraft?

- Voyager 1 and Voyager 2 reached Jupiter in 1979, where Voyager 1 found active volcanoes on Jupiter's moon Io, including the iconic Jupitar's Great Red Spot.
- Both spacecraft discovered three new moons of Jupiter: Thebe, Metis, and Adrastea.
- Voyager 1 revealed that Saturn's moon Titan was not the largest moon in the solar system and had a nitrogenrich atmosphere with methane clouds and rain.



OPTIMIZE IAS QUESTION

Question No 93

Which one of the following is synthesised in human body that dilates blood vessels and increases blood flow?

- (a) Nitric oxide
- (b) Nitrous oxide
- (c) Nitrogen dioxide
- (d) Nitrogen pentoxide

optimizeias.com/single-pill-strategy-to-beat-cardiovascular-diseases/



HOME ABOUT US FREE INITIATIVES COURSES

Subject : Science and technology

Section: Health

Context:

World Health Organization (WHO) added three fixed-dose combinations of **cardiovascular medicines** or **polypills** to its revised Model Lists of Essential Medicines 2023.

What is Cardiovascular disease (CVD)?

A group of disorders that affect the **heart and blood vessels**. It includes various conditions that can lead to impaired blood flow, damage to the heart muscle, or other abnormalities in the cardiovascular system.

What are common types of CVD?

- Coronary Artery Disease (CAD) Narrowing or blockage of coronary arteries.
- 2. Hypertension (High Blood Pressure) Consistently elevated blood pressure levels.
- 3. Stroke Sudden interruption of blood flow to the brain.
- Heart Failure Inability of the heart to pump blood effectively.
- 5. Arrhythmias Abnormal heart rhythms (fast, slow, irregular).
- 6. Valvular Heart Disease Problems with heart valves.
- Peripheral Artery Disease (PAD) Narrowing or blockage of leg arteries.
- 8. Aortic Aneurysm Abnormal widening of the aorta.
- 9. Congenital Heart Defects Structural heart abnormalities from birth.
- Cardiomyopathy Weak or thickened heart muscle.

What are the common medications used for CVD?

- 1. Statins: Lower cholesterol levels to reduce heart attack and stroke risk.
- 2. Beta-Blockers: Lower blood pressure and reduce heart workload.
- 3. ACE Inhibitors: Relax blood vessels and lower blood pressure.
- 4. ARBs (Angiotensin II Receptor Blockers): Lower blood pressure by blocking angiotensin II.
- 5. Calcium Channel Blockers: Relax blood vessels and reduce heart workload.
- 6. **Diuretics**: Eliminate excess sodium and water to reduce fluid buildup and blood pressure.
- 7. Antiplatelet Agents: Prevent blood clot formation, used in heart attack and stroke prevention.
- 8. Anticoagulants: Prevent blood clot formation, used in atrial fibrillation and thrombosis management.
- 9. Nitrates: Relax blood vessels, relieve angina, and improve blood flow to the heart.
- 10. Digoxin: Strengthen heart contractions and control heart rate in certain conditions.

Question No 95

95. Consider the following aircraft:

1. Rafael
2. MiG-29
3. Tejas MK-1
How many of the above are considered fifth generation fighter aircraft?

(a) Only one
(b) Only two
(c) All three

None



OPTIMIZE IAS QUESTION

LAQSHYA Test No: 1057 Question No: 24

DIRECT QUESTION FROM OUR TESTS

\otimes	Test 1057 March 2024 Current Affairs	
UP	PSC APTITUDE	
Q. 2	24 of 100	
Cons	sider the following statements regarding Advanced Medium Combat Aircraft (AMCA)	
1	1. The AMCA Mk1 variant will have indigenous Kaveri engine.	
2	2. It will be manufactured by state-owned The Aeronautical Development Agency (ADA).	
3	3. The engines, fuel tanks of fifth-generation fighter jets are located in the plane's body to hide heat sig	natures.
How	v many of the above statements are correct? Select the correct answer using the code given below:	
A (Only one	
В	Only two	
c ,	All three	
D I	None	
	I	

Answ

Answer Explanation

Statement 1 is incorrect: AMCA is India's fifth-generation multirole fighter jet. The AMCA Mk1 variant will have the US-built GE414 engine of the 90 kilonewton (kN) class.

Statement 2 is incorrect: The Aeronautical Development Agency (ADA) under the DRDO will be the nodal agency for executing the programme and designing the aircraft. It will be manufactured by state-owned **Hindustan Aeronautics** Limited (HAL).

Statement 3 is correct: The engines, fuel tanks of fifth-generation fighter jets are located in the plane's body to hide heat signatures..



HOME ABOUT US FREE INITIATIVES COURSES

ALL ABOUT INDIA'S INDIGENOUS FIFTH-GEN FIGHTER JET ADVANCED MEDIUM COMBAT AIRCRAFT (AMCA), AND WHY IT IS **IMPORTANT**

(I) March 12, 2024 Posted by: OptimizeIAS Team Category: DPN Topics

No Comments

All about India's indigenous fifth-gen fighter jet Advanced Medium Combat Aircraft (AMCA), and why it is important

Subject: Science and tech

Section: defence

Context:

- The Cabinet Committee on Security (CCS) this week cleared a Rs 15,000 crore project to design and develop the Advanced Medium Combat Aircraft (AMCA), India's fifth-generation fighter multirole fighter jet.

More on news:

- The Aeronautical Development Agency (ADA) under the Defence Research and Development Organisation (DRDO) will be the nodal agency for executing the programme and designing the aircraft.
- It will be manufactured by state-owned Hindustan Aeronautics Limited (HAL).
- The aircraft will put India in a select group of nations that have their own fifth-generation fighter aircraft.



D None

OPTIMIZE IAS QUESTION

Question No 97

Which one of the following is the exhaust pipe emission from Fuel Cell Electric Vehicles,

- Hydrogen peroxide
- Hydronium
- Oxygen
- (d) Water vapour

_AQSHYA Test No: 1050 Question No: 1

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\otimes	Test 1050 - Feb 2024 Current Affairs
UPS	SC GENERAL STUDIES
Q. 1 c	of 100 Marks: 2.0, -0.67
×	You have skipped this question, you scored 0.00
Cons	sider the following statements:
2.	India's first indigenously built hydrogen fuel cell ferry boat is constructed at the Cochin Shipyard. Hydrogen fuel cells only emit water. Unlike traditional combustion-based technologies, fuel cells provide greater efficiencies and lower emissions.
How	many of the above statement/s is/are correct? Select the correct answer using the code given below:
(A) C	Only one
ВС	Only two
© A	All three





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Question No 98

Recently, the term "pumped-storage hydropower" is actually and appropriately discussed in the context of which one of the following?

- (a) Irrigation of terraced crop fields
- (b) Lift irrigation of cereal crops
- (c) Long duration energy storage
- (d) Rainwater harvesting system



OPTIMIZE IAS QUESTION

DIRECT QUESTION FROM OUR GEO OPTIMA

India's norms for pumped storage hydro projects aim to facilitate energy storage

Context: The Ministry of Power recently issued draft guidelines to promote pumped storage projects (PSPs) in India.

Pumped storage hydro (PSH) plants

- Pumped storage hydro (PSH) plants are storage systems based on hydropower operations between two or more reservoirs (upper and lower) with an elevation difference.
- At the time of demand, downward water flow generates electricity with a hydraulic turbine, and water is pumped back to the upper reservoir using power from grid or RE sources, with an overall efficiency of 75-80%.

PSP Potential in India

- The country has 5,745 large dams, which provide an excellent opportunity for developing PSP plants by placing them in between two large dams or by using one dam and a second reservoir on a hill-top in a manner.
- In India, as per government estimates, has the potential of 103 gigawatt (GW) of PSP. Currently, India has around 4.7 gigawatt (GW) of installed capacity of PSPs, of which 3.3 GW is operational.

Significance:

- It is conventionally used to stabilise the grid and maintain peak power. With the seasonal variability of renewable
 energy production, the importance of energy storage systems like battery storage and PSPs has assumed significance.
- Operational cost per KwH is lower than that of battery storage systems.
- PSP plants are highly useful options for the integration of Renewable Energy power with the power system.
- The PSP plants will have a very low impact on biodiversity and involve very few resettlements and rehabilitation (R&R) challenges.

Issues:

- Several issues have halted the growth of PSPs in India.
 - Higher upfront cost
 - High tariff of power used to pump water uphill,
 - long gestation period

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GEOGRAPHY OPTIMA 2024



OPTIMIZE IAS QUESTION

Question No 99

LAQSHYA Test No: FLT6 Question No: 20

"Membrane Bioreactors" are often discussed in the context of:

- Assisted reproductive technologies
- Drug delivery nanotechnologies
- Vaccine production technologies (c)
- (d) Wastewater treatment technologies

DIRECT QUESTION FROM OUR TESTS

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Full Length Test 6		
UPSC GENERAL STUDIES		
Q. 20 of 100 Marks: 2.0, -0.67		
X You have skipped this question, you scored 0.00		
'Moving Bed Biofilm Reactor', and 'Sequencing Batch Reactors' are related to which of the following?		
Pressurized Heavy Water Reactors (PHWR)		
B Sewage Treatment Plants (STP)		
C CANDU reactor		
D Thermal Power Plants (TPP)		

INDIA IS ADOPTING ADVANCED SEWAGE WASTEWATER TREATMENT TECH, BUT MUST CHOOSE THOSE THAT BEST MEET LOCAL **NEEDS**



No Comments

India is adopting advanced sewage wastewater treatment tech, but must choose those that best meet local needs

Subject : Environment

Section: Pollution

Context:

- Indian cities currently treat only 28 per cent of the 72,368 million litres of sewage they generate every day, as per the latest data released by the Central Pollution Control Board in December 2022.

Details:

- Most sewage treatment plants in the country rely on outdated technologies such as the activated sludge process, planted drying beds, soil biotechnology andupflow anaerobic sludge blanket reactors that have a treatment efficiency of around 65 per cent and are cumbersome to set up and manage.
- In recent years, several states have adopted some newer technologies that have treatment efficiency of around 80 to 90 per cent.
- Andhra Pradesh and Telangana have opted for sequencing batch reactors (SBRS) and moving bed biofilm reactors (MBBRS).
- The sewage treatment plant (STP) at Durgam Cheruvu Lake, Hyderabad and most of the STPs of Bihar, Maharashtra, Goa, Haryana, West Bengal and Uttarakhand have opted for SBRS.
- When compared to traditional treatment techniques, these technologies have higher treatment and nutrient removal capacity, are better at handling shock loads (spikes in pollution concentration in wastewater), are more resource-efficient and generate high-quality effluent with greater reuse potential.

Membrane bioreactors:

- It has the highest rate of filtration which is achieved by combining biological processes with a membrane.

Working:

- Sewage is first treated inside a bioreactor where microorganisms break down organic matter and eliminate pollutants by converting them into carbon dioxide, water and biomass.
- After this, the wastewater is pressured through a fine-pore membrane to segregate treated effluent from micro-organisms and suspended solids and ensure the production of high-quality, clarified effluent that can be reused without further treatment.
- It also has a small footprint, making it ideal for areas with land scarcity.
- It offers a high level of automation and process control through sensors for real-time control over

Advantages:

- Highly efficient, and crucial for food processing industries.

Disadvantages:

- Energy-intensive, expensive to set up and operate, requires regular maintenance, skilled human intervention and frequent system downtime to replace the membrane.

Moving Bed Biofilm Reactor (MBBR):

- Extensively used for handling municipal sewage.
- The process takes place in a bioreactor with plastic carriers on which microorganisms can attach and thrive.
- As wastewater flows through the bioreactor, the microorganisms in the biofilm metabolise organic matter and pollutants in the sewage. The biofilm is designed to freely float within the bioreactor, facilitating the distribution of wastewater and oxygen.

- High treatment efficiency, can handle wastewater with different pollutant compositions, produces limited sludge, requires less energy to operate and has negligible downtime.

Disadvantages:

- Limited removal of solids and nutrients, the biofilm carriers within MBBRs can clog up the system if not effectively managed, regular maintenance, and it relies less on automation and focuses on manual adjustments to control parameters like aeration and effluent quality.

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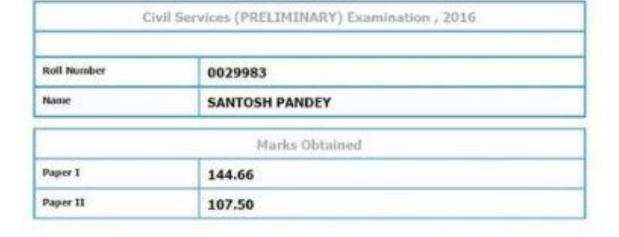
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