"The significant problems we face cannot be solved at the same level of thinking we were at when we created them." - Albert Einstein

ANALYSIS / APPROACH / SOURCE / STRATEGY: GENERAL STUDIES PRE 2019 PAPER
- TEAM VISION IAS

Observations on CSP 2019

- This year the paper appeared to be on the tougher side as it was lengthy and the options framed were confusing. The themes of the questions asked seemed relevant but required in-depth understanding and knowledge. However, the static portions like History, Polity, Geography, Economics, etc. as expected were given due weightage.
- Questions ranged from both fundamental topics like those in Economics e.g. PPP, P-Notes; Modern history e.g. Swadeshi Movement; Geography e.g. 21st June etc. to unconventional sources and topics in S&T which scaled the difficulty level of this paper.
- UPSC has raised the bar and it expects the aspirants to even read the fine print. Questions like that on Compensatory Afforestation, External Debt, Glacier, Jagirdari and Zamindari, etc. required thorough reading and deeper understanding of the static subjects.
- In the History section, this time Medieval India questions were given more weightage unlike art & culture in the previous years. However, the modern history section was of moderate level difficulty overall.
- Environment questions unlike previous years did not focus on International climate initiatives and bodies. This year there was focus on environmental governance issues especially which were in the news like Forest Rights Act, Environmental Protection Act, Solid Waste Management Rules, Wetland Conservation rules, etc.
- Polity questions demanded deeper understanding of the Constitution and its provisions. The options in polity questions were close and were not asked from regular sources like Laxmikanth. The judgements of SC have been paid special emphasis this year.
- Map reading and Atlas continue to play an important role in one's preparation in Geography section. This year this section saw a mix of factual and conceptual questions like dew drops, bordering countries and seas, minor minerals, etc. In map based questions, in-depth observation was required.
- S&T questions were more on technological aspect than on basic science such as biology. Direct relation of S&T developments could be linked with current affairs in questions like digital signature, black hole, patents, etc. However, few questions checked deeper knowledge and clarity like functional chromosomes, RNA-I, etc.
- The Current Affairs understanding was not restricted to only one year news.
**Recommendations**

- Read Basic/standard books, follow one Good News Paper religiously and use the internet as extensively as possible.
- Have keen perception about things going around you. After reading newspaper always clarify key terms from internet. Try to refer to the official govt. websites more.
- Read standard text books on static subjects and don’t ignore NCERTs. Never ignore any subject completely to increase attemptability in the paper.
- An appropriate strategy should be to avoid negative marking in tough questions and maximize your score by first finding the easy ones and completing them.
- Read questions carefully and use elimination technique wherever possible.

### Nature of Question

<table>
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<th>Type</th>
<th>Description</th>
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<tr>
<td>F: Fundamental</td>
<td>Conventional and conceptual question which is easily available in commonly recommended books. If a current affairs source is mentioned then it indicates that you had one more reason to prepare this.</td>
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<tr>
<td>FA: Fundamental Applied</td>
<td>Question is an analytical question which requires information + application of mind. Answer to these questions are from commonly recommended books but not so obvious to find.</td>
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<tr>
<td>CA: Current Affair</td>
<td>Question which can be answered almost completely using given source alone.</td>
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<tr>
<td>CAA: Current Affair Applied</td>
<td>Question needs information from more than one source to answer AND/OR application of mind (common sense and overall understanding) of aspirant. This is why source for these questions may not be answering the question completely.</td>
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<tr>
<td>FCA: Fundamental + Current affair.</td>
<td>This is a F or FA question supplemented with current affairs or a current affairs question that needs background information for complete answer. Source to these questions might not answer the questions in entirety.</td>
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<tr>
<td>U (Unconventional Question):</td>
<td>Unconventional Question means the question that is distantly related to syllabus provided by UPSC. It is neither present in even reference sources (in addition to recommended books) nor prominently in news.</td>
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EM = Essential material like basic books etc.  
RM = Reference material  
EN = Essential News/Current Affairs  
RR = Random Read like random website etc.  
E : Easy, M : Medium, D : Difficult
With reference to Asian Infrastructure Investment Bank (AIIB), consider the following statements:
1. AIIB has more than 80 member nations.
2. India is the largest shareholder in AIIB.
3. AIIB does not have any members from outside Asia. Which of the statements given above is/are correct?
   (a) 1 only  
   (b) 2 and 3 only  
   (c) 1 and 3 only  
   (d) 1, 2 and 3

Statement 1 is correct and statement 3 is not correct: It is a multilateral development bank with a mission to improve social and economic outcomes in Asia and beyond. Currently it has 97 approved members with India as a founding member.

Statement 2 is not correct: India is the second largest shareholder in AIIB with 7.5% voting shares while China holds 26.06% voting shares being the largest.

Recently, third annual meeting of AIIB was held in Mumbai where Asian Infrastructure Forum was launched.
**Current Affairs**

What was the purpose of Inter-Creditor Agreement signed by Indian banks and financial institutions recently?

(a) To lessen the number of bad loans

- Project Sashakt was proposed by a panel led by PNB chairman Sunil Mehta. Bad loans of up to Rs. 50 crore will be managed at the bank level, with a deadline of 90 days.

**Intermediary**

https://economictimes.indiatimes.com/industry/banking/finance/banking-guidelines/articleshow/69703375.cms

Has been in news frequently since last year.

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grown to 86 approved members from around the world. So far, AIIB has only invested in one solar power project outside Asia, in Egypt. While 75% of the capital is from Asia, several non-Asian regions like Europe, North America, some East African and Latin American countries have also joined the bank as members. With the total project portfolios of US$4.4 Billion, India has been the largest borrower of Asian Infrastructure Investment Bank (AIIB) lending since the time the Bank started its operations. The AIIB’s third Annual Meeting was held in Mumbai, India on June 25 and 26, 2018. The Board of Governors of the AIIB announced that the Fourth AIIB Annual Meeting will be held in Luxembourg in July 2019.
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<th>Government of India’s perennial burden of fiscal deficit and current account deficit. (b) To support the infrastructure projects of Central and State Governments (c) To act as independent regulator in case of application for loans of Rs. 50 core or more (d) To aim at faster resolution of stressed assets of Rs. 50 crore or more which are under consortium lending</th>
<th>For bad loans of Rs. 50-500 crore, banks will enter an inter-creditor agreement, authorizing the lead bank to implement a resolution plan in 180 days, or refer the asset to NCLT.</th>
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For bad loans of Rs. 50-500 crore, banks will enter an inter-creditor agreement, authorizing the lead bank to implement a resolution plan in 180 days, or refer the asset to NCLT.

[on-inter-creditor-agreement-next-week/articleshow/65490962.cms](on-inter-creditor-agreement-next-week/articleshow/65490962.cms)
The Chairman of public sector banks are selected by the
(a) Banks Board Bureau
(b) Reserve Bank of India
(c) Union Ministry of Finance
(d) Management of concerned bank

- Banks Board Bureau recommends for selection of heads - Public Sector Banks and Financial Institutions and helps banks in developing strategies and capital raising plans.

http://pib.nic.in/newsite/PrintRelease.asp?relid=136968

All India Test Series Test 2671

Consider the following statements regarding Bank Board Bureau (BBB):
1. It will advise the government on top-level appointments at Public Sector Banks (PSBs) and Financial Institutions (FIs).
2. It has been set up as a three member body.
3. Only a retired governor of RBI can become the Chairman of the Bureau.
Which of the statements given above is/are correct?
(a) 1 and 2 only
(b) 1 only
(c) 2 and 3 only
(d) 1, 2 and 3

Explanation:
Statement 1 is correct:
Following are the functions of BBB:
To be responsible for the selection and appointment of Board of Directors in PSBs and FIs (Whole-time Directors and Non-Executive Chairman);
To advise the Government on matters relating to appointments, confirmation or extension of tenure and termination of services of the Board of Directors of the above mentioned banks.

The Banks Board Bureau (BBB) recently identified 75 senior management personnel of public sector lenders to take over leadership role in the future.
To advise the Government on the desired structure at the Board level, and, for senior management personnel, for each PSB and FI;

To advise the Government on evolving suitable training and development programmes for management personnel in PSBs/FIs; and

To advise the Government on the formulation and enforcement of a code of conduct and ethics for managerial personnel in PSBs/FIs;

To build a data bank containing data relating to the performance of PSBs/FIs, its senior management and the Board of Directors and share the same with Government; etc.

**Statement 2 is not correct:** With a view to improve the Governance of Public Sector Banks (PSBs), the Government set up an autonomous Banks Board Bureau having three ex-officio members and three expert members in addition to Chairman. All the Members and
### 4 Current Affairs

Consider the following statements:
1. Petroleum and Natural Gas Regulatory Board (PNGRB) is the first regulatory body set up by the Government of India.
2. One of the tasks of PNGRB is to ensure competitive markets for gas.
3. Appeals against the decisions of PNGRB go before the Appellate Tribunals for Electricity. 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

- **Statement 1 is not correct:** The Petroleum and Natural Gas Regulatory Board (PNGRB) was constituted under the Petroleum and Natural Gas Regulatory Board Act, 2006.
- **Statement 2 is correct:** The Act provides for the establishment of Petroleum and Natural Gas Regulatory Board to protect the interests of consumers and entities engaged in specified activities relating to petroleum, petroleum products and natural gas and to promote competitive markets and for matters connected therewith or incidental thereto.
- **Statement 3 is correct:** The Appellate Tribunal established under section 110 of the Electricity Act, 2003 (36 of 2003) is the Appellate Tribunal for the purposes of Petroleum and Natural Gas Regulatory Board Act, 2006.

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### EN

**All India Test Series Test 2671**

Which of the following functions is/are performed by the Petroleum and Natural Gas Regulatory Board (PNGRB) is the authority to grant authorization to the entities for the development of City Gas Distribution (CGD) network in Geographical Areas (GAs) as per PNGRB Act, 2006.

- **Explanation:** The Government has envisaged to develop the National Gas Grid. For this the Petroleum and Natural Gas Regulatory Board (PNGRB) is the authority to grant authorization to the entities for the development of City Gas Distribution (CGD) network in Geographical Areas (GAs) as per PNGRB Act, 2006.
| 5 | Science & Technology | With reference to communications technologies, what is/are the difference/differences between LTE (Long-Term Evolution) and VoLTE (Voice over Long-Term Evolution)? 1. LTE is commonly marketed as 3G and VoLTE is commonly marketed as advanced 3G. 2. LTE is data-only technology and VoLTE is voice-only technology. Select the correct answer using the code given below. (a) 1 only (b) 2 only (c) Both 1 and 2 (d) Neither 1 nor 2 | D | • VoLTE is a technology update to the LTE protocol used by mobile phone networks. • Under LTE, the infrastructure of telecom players only allows transmission of data while voice calls are routed to their older 2G or 3G networks. This is why, under LTE, you cannot access your 4G data services while on a call. This leads to problems such as slow internet speeds and poor voice clarity. VoLTE allows voice calls to be ‘packaged’ and carried through LTE networks. This would mean 4G data accessibility even during calls. Hence, statement 2 is not correct. • LTE is commonly marketed as 4G LTE. Hence, statement 1 is not correct. | M | FCA | EN | In news due to advent of 5G |
| 6 | Current Affairs | Which of the following statements is/are correct regarding the Maternity Benefit Amendment Act, 2017? 1. Pregnant women are entitled for three months | C | Maternity Benefit (Amendment) Act, 2017 • It provides for full paid absence from work for a period of 26 weeks (earlier 12 weeks) to take care of the child. Hence statement 1 is | M | CA | EM | As per the recent DoPT notification, male personnel in the central government who are single parents to |
1. Enterprises with creches must allow the mother minimum six creche visits daily.
2. Women with two children get reduced entitlements. Select the correct answer using the code given below.
(a) 1 and 2 only
(b) 2 only
(c) 3 only
(d) 1, 2 and 3
3. Women with two children get reduced entitlements.

Select the correct answer using the code given below.
(a) 1 and 2 only
(b) 2 only
(c) 3 only
(d) 1, 2 and 3

- The Act is applicable to all establishments employing 10 or more women.
- For women who are expecting after having 2 children, the duration of paid maternity leave shall be 12 weeks. Hence statement 3 is correct.
- Maternity leave of 12 weeks to be available to mothers adopting a child below the age of three months from the date of adoption as well as to the “commissioning mothers”.
- The Act makes it mandatory for employers to educate women about the maternity benefits available to them at the time of their appointment.
- Any establishment which has 50 or more employees shall have the facility of creche. Further, the proviso of Section 11A states that employer shall allow 4 visits a day to the creche by the woman employee. Hence statement 2 is not correct.

Which one of the following is not a sub-index of the World Bank’s ‘Ease of Doing Business Index’?
(a) Maintenance of law and order
(b) Paying taxes
(c) Registering property

Doing Business measures regulations affecting 11 areas of the life of a business. Ten of these areas are included in this Doing Business 2019 ranking on the ease of doing business: starting a business, dealing with construction

Doing Business Report 2019 was released recently.
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<td><strong>(d) Dealing with construction permits</strong></td>
<td><strong>permits</strong>, getting electricity, <strong>registering property</strong>, getting credit, protecting minority investors, <strong>paying taxes</strong>, trading across borders, enforcing contracts and resolving insolvency. Doing Business also measures labor market regulation, which is not included in this year’s ranking.</td>
<td><strong>8 Environment</strong></td>
<td>In India, ‘extended producer responsibility’ was introduced as an important feature in which of the following? (a) The Bio-medical Waste (Management and Handling) Rules, 1998 (b) The Recycled Plastic (Manufacturing and Usage) Rules, 1999 (c) The e-Waste (Management and Handling) Rules, 2011 (d) The Food Safety and Standard Regulations, 2011</td>
<td><strong>C</strong></td>
</tr>
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<td><strong>9 Economics</strong></td>
<td>The economic cost of food grains to the Food Corporation of India is Minimum Support Price and</td>
<td><strong>C</strong></td>
<td>The economic cost comprises the procurement price of foodgrains, costs related to procurement (such as statutory</td>
<td><strong>M</strong></td>
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### 10 Polity & Governance

In the context of any country, which one of the following would be considered as part of its social capital?

- (a) The proportion of literates in the population
- (b) The stock of its buildings, other infrastructure and machines
- (c) The size of population in the working age group
- (d) The level of mutual trust and harmony in the society

### Social Capital

Social capital is a sociological concept that refers to the intangible relational assets that emerge from social interactions. These assets are generated through give and take and activate the “norm of reciprocity,” creating social obligations that connect and bind people and groups. The more social capital is used, the greater the benefits.

- The concept of social capital is composed of three distinct but interrelated structural, emotional and behavioral components. They are, respectively, networks, trust and collaborative cultural norms.
- In every society, some people have a greater share of valued resources – money, property, education, health, and power – than others. These social resources can be divided into three forms of capital – economic capital in the form of material assets and income; cultural capital such as educational qualifications and status; and social capital in the

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**Reference:** NCERT Class XII Sociology: Chapter 5 – Patterns of Social Inequality and Exclusion.
form of networks of contacts and social associations (Bourdieu 1986). Often, these three forms of capital overlap and one can be converted into the other. For example, a person from a well-off family (economic capital) can afford expensive higher education, and so can acquire cultural or educational capital. Someone with influential relatives and friends (social capital) may – through access to good advice, recommendations or information – manage to get a well-paid job.
### Economics

The Service Area Approach was implemented under the purview of:
- (a) Integrated Rural Development Programme
- (b) Lead Bank Scheme
- (c) Mahatma Gandhi National Rural Employment Guarantee Scheme
- (d) National Skill Development Mission

- **B**
  - The Service Area Approach (SAA) introduced in April 1989, in order to bring about an orderly and planned development of rural and semi-urban areas of the country, was extended to all Indian scheduled commercial banks including Regional Rural Banks (RRBs).
  - Service area approach is an alternative and improved method of Lead Bank Scheme for deployment of bank credit for rural development. Under SAA, each bank branch in rural and semi-urban area was designated to serve an area of 15 to 25 villages and the branch was responsible for meeting the needs of bank credit of its service area.
  - The primary objective of SAA was to increase productive lending and forge effective linkages between bank credit, production, productivity and increase in income levels.

### Geography

With reference to the management of minor minerals in India, consider the following statements:
1. Sand is a ‘minor mineral’ according to the prevailing law in the country.
2. State Governments have the power to grant mining leases of minor minerals, but the powers regarding the

- **A**
  - **Statement 1 is correct** - Sand is a minor mineral, as defined under section 3(e) of the Mines and Minerals (Development and Regulation) Act, 1957 (MMDR Act).
  - **Statement 2 is not correct** - As per Section 15 of the Mines and Minerals (Development and Regulation) Act, 1957, State Governments do not have the power to grant mining leases of minor minerals.
formation of rules related to the grant of minor minerals lie with the Central Government.

3. State Government have the power to frame rules to prevent illegal mining of minor minerals. Which of the statements given above is/are correct?
(a) 1 and 3 only
(b) 2 and 3 only
(c) 3 only
(d) 1, 2 and 3

Regulation) (MMDR) Act, 1957, State Governments have been empowered to frame rules in respect of minor minerals for regulating the grant of quarry leases, mining leases or other mineral concessions in respect of minor minerals and for purposes connected therewith.

- **Statement 3 is correct**

Section 23C of the MMDR Act, 1957 empowers state governments to frame rules to prevent illegal mining, transportation and storage of minerals and for purposes connected therewith. Control of illegal mining is, therefore, under the legislative and administrative jurisdiction of state governments.

### 13 Economics

Consider the following statements:

1. Most of India’s external debt is owed by governmental entities.
2. All of India’s external debt is denominated in US dollars. 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

- **As per the Government report on External debt by December 2018-Commercial borrowings are the largest component of external debt with a share of 37.1 percent, followed by NRI deposits (23.9 percent) and short term trade credit (19.9 percent). Hence, Statement 1 is not correct.**
- **US dollar denominated debt continued to be the largest component of India’s external debt with a share of 45.9 percent at end December 2018, followed by the Indian...**

### 15 Economics

With reference to India’s external debt profile, consider the following statements:

1. NRI deposits form the highest component of India’s external debt.
2. A large majority share of total external debt is in the form of long-term debt.
3. US dollar-denominated debt continued to be the largest component of...
rupee (24.8 percent), SDR (5.1 percent), yen (4.9 percent) and euro (3.1 percent). Hence, **Statement 2 is not correct.**

India’s external debt. Which of the statements given above are correct?
(a) 2 and 3 only
(b) 1 and 2 only
(c) 1, 2 and 3
(d) 1 and 3 only

Consider the following statements regarding Indian economy:
1. Commercial borrowings are the largest component of external debt.
2. Major portion of external debt is in form of short term debt.
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

Commercial borrowings are the largest component of external debt with a share of 37.1 percent, followed by NRI deposits (23.9 percent) and short term trade credit (19.9 percent). US dollar denominated debt continued to be the largest component of India’s external debt with a share of 45.9 percent at end
### Question 14: Economics
Which of the following is not included in the assets of a commercial bank in India?
(a) Advances  
(b) Deposits  
(c) Investments  
(d) Money at call and short notice  

**Answer:** (b) Deposits

A bank places its funds in assets to earn profits. The assets include investments, loans and advances, money at call and short notice, bills discounted and purchased. It also includes the cash in hand with the banks and also the cash held with the RBI.
- The liabilities include deposits (both time and demand) and borrowings.
- **Hence (b) is the correct answer.**

### Question 15: Economics
In the context of India, which of the following factors is/are contributor/contributors to reducing the risk of a currency crisis?
1. The foreign currency earnings of India’s IT sector
2. Increasing the government expenditure
3. Remittances from Indians abroad

Select the correct answer using the code given below.
(a) 1 only  
(b) 1 and 3 only  
(c) 2 only  
(d) 1, 2 and 3

**Answer:** (a) 1 only

Currency crisis is brought on by a decline in the value of a country’s currency. This decline in value negatively affects an economy by creating instabilities in exchange rates, meaning that one unit of a certain currency no longer buys as much as it used to in another currency.
- A substantial amount of foreign exchange reserves can help to cushion against any risks of currency crisis.
- The foreign current earnings of India’s IT sector and remittances from abroad would lead more inflow of foreign currencies in the economy and boost the currency.
foreign exchange reserves. Hence, Statements 1 and 3 are correct.
- **Statement 2 is not correct** as increasing the government expenditure is not related to change in foreign exchange reserves or any currency fluctuations.

16  Polity & Governance  Which one of the following suggested that the Governor should be an eminent person from outside the State and should be a detached figure without intense political links or should not have taken part in politics in the recent past? (a) First Administrative Reforms Commission (1966) (b) Rajamannar Committee (1969) (c) Sarkaria Commission (1983) (d) National Commission to Review the Working of the Constitution (2000)

- **Recommendation on appointment of Governor:**
  - Governor should be an eminent person and not belong to the state where he is to be posted.
  - State chief minister should have a say in the appointment of governor.
  - **Governor should be a detached figure without intense political links or should not have taken part in politics in recent past.** Hence, Statement (c) is correct.
  - Governor should not be a member of the ruling party.

17  Economics  Which of the following is issued by registered foreign portfolio investors to overseas investors who want to be part of Indian stock market without registering themselves directly? (a) Certificate of Deposits (b) Commercial Paper (c) Promissory Note

D  **A Participatory Note (PN or P-Note)** is a derivative instrument issued in foreign jurisdictions, by a SEBI registered Foreign Institutional Investor (FII) or its sub-accounts or one of its associates, against underlying Indian securities. The underlying Indian security


EM  All India Test Series Test 2657
Consider the following statements regarding Participatory Notes (P-Notes):
1. It is a derivative instrument.
2. It is issued in a foreign jurisdiction by an RBI
| (d) Participatory Note | instrument may be equity, debt, derivatives or may even be an index.  
| | • A promissory note is a financial instrument that contains a written promise by one party to pay another party a definite sum of money, either on demand or at a specified future date.  
| | • Commercial Paper (CP) is an unsecured money market instrument issued in the form of a promissory note. CPs are short-term instruments and the maturity period varies from seven days to up to one year. It was introduced to enable highly rated corporate borrowers to diversify their sources of short-term borrowings, and also to provide an additional instrument to investors.  
| | • Certificate of Deposits-It is a saving certificate with a fixed maturity date at fixed interest rate. It is issued by commercial banks and financial institutions. It is issued in the form of promissory note in exchange of funds deposited in banks for specified period.  
| | registered Foreign Institutional Investor (FII).  
| | 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  
| | Explanation- A Participatory Note (PN or P-Note) is a derivative instrument issued in foreign jurisdictions, by a SEBI registered Foreign Institutional Investor (FII) or its sub-accounts or one of its associates, against underlying Indian securities. The underlying Indian security instrument may be equity, debt, derivatives or may even be an index. Further, a basket of securities from different jurisdictions can also be constructed in which a portion of the underlying securities is Indian securities or indices.  
| | Being derivative instruments and freely tradable, PNs can be easily transferred, creating multiple layers, thereby obfuscating the real beneficial owner. It
18 Environment

Consider the following statements:
1. As per law, the Compensatory Afforestation Fund Management and Planning Authority exists at both National and State levels.
2. People’s participation is mandatory in the compensatory afforestation programmes carried out under the Compensatory Afforestation Fund Act, 2016.
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

A • **Statement 1 is correct**: As per law, the Compensatory Afforestation Fund Management and Planning Authority exists at both National and State levels.
• **Statement 2 is not correct**: It does not provide for mandatory people participation in the compensatory afforestation programmes carried out under the Compensatory Afforestation Fund Act, 2016.

D CAA

http://egazette.nic.in/WriteReadData/2018/188469.pdf
http://pib.nic.in/newsite/PrintRelease.aspx?relid=181889
RR

The CAF Rules were recently published on August 10, 2018, paving the way for smooth implementation and coming into force of the Compensatory Afforestation Fund Act, 2016.
A controversy regarding the same had emerged as rights of gram sabhas or Van Sanrakshan Samitis (Village Forest Committees) had been restricted to mere 'consultation' and not 'consent'. However, the Act still mandates that consultation shall be taken up paving the way for people’s participation in management of working plans in forest land.

19 Polity & Governance

In India, which of the following review the independent regulators in sectors like telecommunications,

A • **Department related Standing Committees**: The Committee system of Parliament is often used in several countries for oversight of regulators. In

M FA

https://www.prsindia.org/sites/default/files/
RR

Laxmikant-Indian Polity
insurance electricity, etc.?  
1. Ad Hoc Committee set up by the Parliament.  
2. Parliamentary Department Related Standing Committee  
3. Finance Commission  
4. Financial Sector Legislative Reforms Commission  
5. NITI Aayog

Select the correct answer using the code given below.  
(a) 1 and 2  
(b) 1, 3 and 4  
(c) 3, 4 and 5  
(d) 2 and 5

India, there are 24 Department Related Standing Committees that comprise members from both Houses of Parliament. These committees are ministry specific, and may review the working of regulators within their respective departments. The Ad hoc committees are temporary and perform specific task. The Ad Hoc Committees dissolve, once their task is done. These committees are Ministries' specific and review the working of regulators within their respective departments.

- **Ad-hoc Committees:**  
  Parliament may establish ad-hoc committees which may examine the working of regulators. For instance, the terms of reference of the Joint Parliamentary Committee (JPC) on the allocation of 2G spectrum include the review of the policy on spectrum pricing and grant of telecom licences. Another example of parliamentary oversight through ad-hoc committees is the scrutiny of the working of SEBI and RBI by the JPC on the stock market scam. The two parliamentary committees on finance which exercise oversight of regulators are:
(a) the Committee on Estimates; and
(b) the Public Accounts Committee (PAC). The Committee on Estimates reviews budgetary estimates of government departments. Such estimates include the budget of regulators. Most laws establishing independent regulators require the Comptroller and Auditor General (CAG) to prepare annual audit reports on the accounts of the regulators. These reports are tabled before Parliament and reviewed by the PAC. The PAC may require the regulator’s officers to depose before the Committee. For instance, the Chairman and senior officers of SEBI deposed before the PAC when it was examining the working of SEBI.

- Finance Commission, Financial Sector Legislative Reforms Commission and NITI Aayog have no role in reviewing the independent regulators.

20 Economics With reference to India’s Five-Year Plans, which of the following statements is/are correct?
1. From the Second Five-Year Plan, there was a determined thrust towards substitution of basic and capital good industries.

A • Statement 1 is correct-India adopted the strategy of Import Substitution Industrialization (ISI) in the fifties. The chief objective was to build self-reliant economy. From the Second Five Year Plan, there was determined thrust towards substitution of...
2. The Fourth Five-Year Plan adopted the objective of correcting the earlier trend of increased concentration of wealth and economic power. In the Fifth Five-Year Plan, for the first time, the financial sector was included as an integral part of the Plan.

Select the correct answer using the code given below.
(a) 1 and 2 only
(b) 2 only
(c) 3 only
(d) 1, 2 and 3

- **Statement 2 is correct** - The Fourth Plan provided a necessary corrective to the earlier trend which helped particularly the stronger sections in agriculture as well as in industry to enable them rapidly to enlarge and diversify the production base. In the long run, the full potential of growth cannot be realised unless the energies of all our people are put to profitable use. The emphasis on spreading the impetus and benefits of economic growth to the weaker sections is thus necessary in the interest of equality as well as growth. The Plan will now assist the less prosperous sections of our farming population to improve their position and make a yet bigger contribution to the national economy.

- **Statement 3 is not correct** - The financial sector become an integral part of the plan in the 9th five-year plan.

---

21 Polity & Governance

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

D • 42nd Constitutional Amendment Act, 1976: Inserted new article 228A.- After article 228 of the

M F Laxmikant: Indian Polity EM
| 1 | No High Court shall have the jurisdiction to declare any central law to be constitutionally invalid. |
| 2 | An amendment to the Constitution of India cannot be called into question by the Supreme Court of India. Which of the statements give above is/are correct? (a) 1 only (b) 2 only (c) Both 1 and 2 (d) Neither 1 nor 2 |

Constitution, Special provisions as to disposal of questions relating to constitutional validity of State laws. (I) No High Court shall have jurisdiction to declare any Central law to be constitutionally invalid. However, the 43rd Amendment Act of 1977 restored the original position. **Hence statement 1 is not correct.**

- In the Kesavananda Bharati case (1973), Supreme Court laid down a new doctrine of the ‘basic structure’ (or ‘basic features’) of the Constitution. It ruled that the constituent power of Parliament under Article 368 can amend the constitution Under Article but Such amendments Should not does not enable it to alter the ‘basic structure’ of the Constitution anything that ultravires the constitution is cut down by the highest judiciary including the Constitutional amendment. **Hence statement 2 is not correct.**

---

| 22 Economics | Consider the following statements: 1. Purchasing Power Parity (PPP) exchange rates are calculated by comparing the prices of the same basket of goods and services in different countries. | A | • In purchasing power parity (PPP) exchange rate — the rate at which the currency of one country would have to be converted into that of another country to buy the same amount of goods and services in each country. For | E | FCA | https://www.businesstoday.in/current/economy-politics/india-pips-japan-in-gdp-based-on-purchasing- | EM |
2. In terms of PPP dollars, India is the sixth largest economy in the world. Which of the statement given above is/are correct?  
(a) 1 only  
(b) 2 only  
(c) Both 1 and 2  
(d) Neither 1 nor 2

| Example: If a burger is selling in India for Rs100 and in New York for $2, this would imply a PPP exchange rate of 1 dollar to Rs 50. Hence, **Statement 1 is correct.**  
• On the PPP basis, China is world’s largest economy in 2018. Total wealth of china is estimated at 25.3 trillion international dollar. China is followed by United States with figure 19.4 trillion. India is the third largest economy in terms of PPP dollars. Hence, **Statement 2 is not correct.** | power-parity/story/282226.html https://www.oecd.org/sdd/prices-ppp/purchasing-power-parities-frequently-asked-questions-faqs.htm |
23 Geography
With reference to the cultivation of Kharif crops in which in the last five years consider the following statements:
1. Area under rice cultivation is the highest.
2. Area under the cultivation of jowar is more than that of oilseeds.
3. Area of cotton cultivation is more than that of sugarcane.
4. Area under sugarcane cultivation has steadily decreased.
Which of the statements given above is/are correct?
(a) 1 and 3 only
(b) 2, 3 and 4 only
(c) 2 and 4 only
(d) 1, 2, 3 and 4

24 Economics
Among the agricultural commodities imported by India, which one of the following accounts for the highest imports in terms of value in the last five years?
(a) Spices
(b) Fresh fruits
(c) Pulses
(d) Vegetable oils

<table>
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<tr>
<th>A</th>
<th>Area, production and yield of major crops</th>
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<td>Crops</td>
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<td>Oilseeds</td>
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<td>Sugarcane</td>
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<td>1</td>
<td>Vegetable Oils</td>
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<tr>
<td>2</td>
<td>Pulses</td>
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<td>3</td>
<td>Fresh Fruits</td>
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<td>4</td>
<td>Cashew raw</td>
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<tr>
<td>5</td>
<td>Spices</td>
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<td>6</td>
<td>Sugar</td>
</tr>
<tr>
<td>7</td>
<td>Alcoholic Beverages</td>
</tr>
<tr>
<td>8</td>
<td>Cotton Raw Incl. Waste</td>
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<td>9</td>
<td>Misc. Processed</td>
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<tr>
<td>Items</td>
<td>Qty</td>
</tr>
<tr>
<td>-----------------------------</td>
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<tr>
<td>Cocoa Products</td>
<td>52</td>
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<tr>
<td>Wheat</td>
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<td>Coffee</td>
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<td>Fruits/ Vegetable Seeds</td>
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### Polity & Governance

In the context of polity, which one of the following would you accept as the most appropriate definition of liberty?

(a) Protection against the tyranny of political rulers
(b) Absence of restraint
(c) Opportunity to do whatever one likes
(d) Opportunity to develop oneself fully

**D**
- The term 'liberty' means the absence of restraints on the activities of individuals, and at the same time, **providing opportunities for the development of individual personalities**.
- Liberty, as elaborated in the Preamble, is very essential for the successful functioning of the Indian democratic system. However, liberty does not mean 'license' to do what one likes and has to be enjoyed within the limitations mentioned in the Constitution itself. In brief, the liberty conceived by the
| 26 | Economics | Which one of the following is not the most likely measure the Government/ RBI takes to stop the slide of Indian rupee? (a) Curbing imports of non-essential goods and promoting exports (b) Encouraging Indian borrowers to issue rupee denominated Masala Bonds (c) Easing conditions relating to external commercial borrowing (d) Following an expansionary monetary policy | D | • Expansionary monetary policy is when the RBI would use its tools to stimulate the economy. That increases the money supply, lowers interest rates, and increases aggregate demand. • Lower interest rates will also tend to reduce the value of the currency. If domestic interest rates fall relative to elsewhere, it becomes less attractive to save money in domestic banks. • Therefore, it will lead to outflow of foreign currency and therefore, slide of Indian Rupee. | E | FA | Introductory Macroeconomics. NCERT class 12 Economics | EM | PT 365 Economy Page 16 |
| 27 | Current Affairs | Consider the following statements: The Reserve Bank of India’s recent directives relating to ‘Storage of Payment System Data’, popularly known as data diktat, command the payment system providers that 1. they shall ensure that entire data relating to payment systems operated by them are stored in a system only in India. | A | The Reserve Banks directive related to Storage of Payment System Data provides that: 1. All system providers shall ensure that the entire data relating to payment systems operated by them are stored in a system only in India. This data should include the full end-to-end transaction details / information collected / carried / processed as part of the message / payment instruction. For the foreign leg of the transaction, if any, the data | D | CAA | [https://www.rbi.org.in/scriptes/NotificationUser.aspx?id=11244](https://www.rbi.org.in/scriptes/NotificationUser.aspx?id=11244) | EN | PT 365 Economy Page 64 | Frequently seen in news |
2. they shall ensure that the systems are owned and operated by public sector enterprises.
3. they shall submit the consolidated system audit report to the Comptroller and Auditor General of India by the end of the calendar year
Which of the statements given above is/are correct?
(a) 1 only
(b) 1 and 2 only
(c) 3 only
(d) 1, 2 and 3

<table>
<thead>
<tr>
<th>28</th>
<th>Current Affairs</th>
<th>Which of the following adopted a law on data protection and privacy for its citizens known as ‘General Data Protection Regulation’ in April 2016 and started implementation of its from 25th May, 2018?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>(a) Australia                                      (b) Canada                                      (c) The European Union</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(d) The United States of America</td>
</tr>
</tbody>
</table>

| 28 | Current Affairs | General Data Protection Regulation (GDPR) aims to protect all European Union (EU) citizens from data breaches. The regulation, which was approved by the EU Parliament in April 2016 after about four years of preparation and debate, came into effect on May 25, 2018. |
|    |                | (a) It aims to protect European Union (EU) citizens from data breaches.                        |
|    |                | (b) It adopts a rights-based approach.                                                        |
|    |                | (c) It applies only to Information Technology                                                  |

| 29 | Current Affairs | Recently, India signed a deal known as ‘Action Plan for Prioritization and Implementation of Cooperation Areas in the Nuclear Field’ with which of the following countries? (a) Japan (b) Russia (c) The United Kingdom (d) The United States of America | B | Action Plan for Prioritization and Implementation of Co-operation Areas in the Nuclear Field Identified Jointly by India and Russia was signed on 5th October, 2018 in New Delhi. | D | CA | https://economictimes.indiatimes.com/industry/energy/power/india-russia-sign-civil-nuclear-action-plan-for-second-plant-third-country-project/articleshow/66085647.cms?from=mdr | EN | Frequently seen in news |
| 30 | Economics | The money multiplier in an economy increases with which one of the following? (a) Increase in the cash reserve ratio (b) Increase in the banking habit of the population (c) Increase in the statutory liquidity ratio (d) Increase in the population of the country | B | • Money Multiplier is the ratio of the stock of money to the stock of high powered money. It is the relationship between the monetary base and money supply of an economy. It explains the increase in the amount of cash in circulation generated by the banks' ability to lend money out of their depositors' funds. Therefore, it refers to how an initial deposit can lead to a bigger final increase in the total money supply.  
• For example, if the commercial banks gain deposits of Rs1 Lakh and this leads to a final money supply of Rs 10 lakh. The money multiplier is 10. | M F | Introductory Macroeconomics. NCERT class 12 Economics Page 42-43 | EM | All India Test Series Test 2657 Which of the following correctly describes the term ‘Money Multiplier’? (a) It is the amount of money that banks generate with each deposited reserve. (b) A factor to calculate the rate of foreign exchange by the Central Bank. (c) It is the total monetary assets held by the central bank with reference to a base year. (d) Number of times a unit of currency can be used to purchase new companies. (d) It provides for penalty in case of non-compliance. |
Therefore, increase in banking habit of the population would lead to more deposits and hence increase in Money Multiplier. Hence (b) is the correct answer.

The Money Multiplier is a phenomenon referring to how an initial deposit can lead to a bigger final increase in the total money supply. It explains the increase in the amount of cash in circulation generated by the banks' ability to lend money out of their depositors' funds. For example, if a commercial bank receives a deposit of Rs 100 and this leads to a final money supply of Rs 1000, then the value of money multiplier is 10.

### Consider the following statements about Particularly Vulnerable Tribal Groups (PVTGs) in India:

1. PVTGs reside in 18 States and one Union Territory.
2. A stagnant or declining population is one of the criteria for determining PVTG status.
3. There are 95 PVTGs officially notified in the country so far.
4. Irular and Konda Reddi tribes are included in the list of PVTGs.

Which of the statements given above are correct? (a) 1, 2 and 3

**A** 75 tribal groups have been categorized by Ministry of Home Affairs as Particularly Vulnerable Tribal Groups (PVTGs). PVTGs reside in 18 States and UT of A&N Islands. Particularly Vulnerable Tribal Groups (PVTGs) are centrally recognized special category from among the Scheduled Tribe. It was constituted during the 4th five year plan on the basis of the report of the Dhebar commission (1960-61). Such groups were identified by one or more of the following features: Existence of pre-agricultural goods and services.

**Explanation:**

The Money Multiplier is a phenomenon referring to how an initial deposit can lead to a bigger final increase in the total money supply. It explains the increase in the amount of cash in circulation generated by the banks' ability to lend money out of their depositors' funds. For example, if a commercial bank receives a deposit of Rs 100 and this leads to a final money supply of Rs 1000, then the value of money multiplier is 10.

### Consider the following statements regarding Particularly Vulnerable Tribal Groups (PVTGs):

- They are centrally recognized special categories from among the Scheduled Tribes.
- Any amendment to the list of PVTGs requires a Constitutional Order by the President of India.
- The maximum number of PVTGs are found in Lakshadweep Islands among all the Indian


**C** A Committee under NITI Aayog will be set up to complete the task of identifying
<table>
<thead>
<tr>
<th>(b) 2, 3 and 4</th>
<th>(c) 1, 2 and 4</th>
<th>(d) 1, 3 and 4</th>
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<tbody>
<tr>
<td>practices, Practice of hunting and gathering, <strong>Zero or negative population growth</strong> and relatively low level of literacy as compared to other tribal groups.</td>
<td><strong>Konda reddy of Khammam district of Telangana and Irular of Tamil Nadu are in the list of PVTGs.</strong></td>
<td>UTs/states. Which of the statements given above is/are correct? (a) 1 only (b) 1 and 2 only (c) 3 only (d) 1, 2 and 3 <strong>Explanation:</strong> Statement 1 is correct: <strong>There are 75 centrally recognized PVTGs in the country.</strong> Particularly Vulnerable Tribal Groups (PVTGs) are centrally recognized special category from among the Scheduled Tribe. It was constituted during the 4th five year plan on the basis of the report of the Dhebar commission (1960-61). Such groups were identified by one or more of the following features: Existence of pre-agricultural practices, Practice of hunting and gathering, Zero or negative population growth and relatively low level of literacy as compared to other tribal groups. Statement 2 is not correct: The inclusion of a tribe to the list of PVTGs doesn’t require a Constitutional Order. <strong>In May 2018, the National Commission for Denotified Nomadic and Semi-Nomadic Tribes, chaired by Bhiku Ramji Idate has submitted its report.</strong> De-notified, Nomadic and Semi-Nomadic communities. <strong>In May 2018, the National Commission for Denotified Nomadic and Semi-Nomadic Tribes, chaired by Bhiku Ramji Idate has submitted its report.</strong></td>
</tr>
<tr>
<td><strong>Zero or negative population growth</strong> and relatively low level of literacy as compared to other tribal groups.</td>
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<tr>
<td>Konda reddy of Khammam district of Telangana and Irular of Tamil Nadu are in the list of PVTGs.</td>
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**Note:**
- The table format is used to present the options and statements clearly.
- The explanations follow the correct answers to the multiple-choice questions.
- The text includes historical context and relevant details about the PVTGs (Particularly Vulnerable Tribal Groups).
- The reference to the Dhebar commission and its report is highlighted.
- The emphasis on literacy and population growth features is noted.
- The mention of the National Commission for Denotified Nomadic and Semi-Nomadic Tribes is included in the explanation.
Government of India designed a procedure to identify PVTGs. According to the procedure, the state governments or UT governments submit proposals to the Central Ministry of Tribal Welfare for identification of PVTGs. After ensuring the criteria is fulfilled, the Central Ministry selects those groups as PVTGs. Statement 3 is not correct: There are 75 listed PVTGs as of today. The highest number of PVTGs are found in Odisha (13), followed by Andhra Pradesh (12), Bihar including Jharkhand (9), Madhya Pradesh including Chhattisgarh (7), Tamil Nadu (6), Kerala and Gujarat having five groups each. The remaining PVTGs live in West Bengal (3), Maharashtra (3), two each in Karnataka and Uttarakhand and one each in Rajasthan, Tripura and Manipur. All the four tribal groups in Andamans, and one in Nicobar Islands, are recognised as PVTGs.
With reference to the Constitution of India, prohibition or limitations or provisions contained in ordinary laws cannot act as prohibitions or limitations on the constitutional powers under Article 142. It could mean which one of the following?

(a) The decisions taken by the Election Commission of India while discharging its duties cannot be challenged in any court of law.

(b) The Supreme Court of India is not constrained in the exercise of its powers by laws made by the Parliament.

(c) In the event of grave financial crisis in the country, the President of India can declare Financial Emergency without the counsel from the Cabinet.

(d) State Legislatures cannot make laws on certain matters without the concurrence of Union Legislature.

**B**

Article 142 states that the Supreme Court in the exercise of its jurisdiction may pass such decree or make such order as is necessary for doing complete justice in any cause or matter pending before it. Any decree so passed or orders so made shall be enforceable throughout the territory of India in such manner as may be prescribed by Parliament. Until a provision in that behalf is made, then it would be enforced in such a manner as the President may by order prescribe. One of the important instances of application by the Supreme Court of Article 142 was in the Union Carbide case — relating to the victims of the Bhopal gas tragedy. In this judgment, the Supreme Court, while awarding compensation of $470 million to the victims, went to the extent of saying that to do complete justice, it could even override the laws made by Parliament by holding that, “prohibitions or limitations or provisions contained in ordinary laws cannot, ipso facto, act as prohibitions or limitations on the constitutional powers under Article 142.” By this statement the Supreme Court of India placed itself above the laws made by Parliament or the legislatures of the States. Hence the Supreme Court of India is not constrained in the exercise of its powers.
powers by laws made by the Parliament.

Some important cases where Supreme Court invoked article 142 are:
1. Appointment of Lokayukta in Uttar Pradesh.
2. Setting up R.M. Lodha Committee to oversee the functioning of the Medical Council of India (MCI).
3. Transfer the trial of accused in Babri Masjid demolition case.
4. Ban on sale of alcohol within 500 meters of state and national highways.
5. Witness Protection Scheme, 2018
With reference to the Legislative Assembly of a State in India, consider the following statements:

1. The Governor makes a customary address to Members of the House at the commencement of the first session of the year.
2. When a State Legislature does not have a rule on a particular matter, it follows the Lok Sabha rule on that matter.

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

**Article 176(1) of the Constitution** of India enjoins that the Governor shall Address both the Houses assembled together at the commencement of the first Session after each general election to the Assembly and at the commencement of the first session of each year and inform the Legislature of the causes of its Summon. The Address of the Governor contains a review of the activities and Achievements of the Government during the previous year and their policy with regard to important internal problems as well as a brief account of the programme of Government Business for the session.

**Article 208 in The Constitution Of India 1949**

208. Rules of procedure

1. A House of the Legislature of a State may make rules for regulating subject to the provisions of this Constitution, its procedure and the conduct of its business.

2. Until rules are made under clause (1), the rules of procedure and standing orders in force immediately before the commencement of this Constitution with respect to the Legislature for the corresponding Province shall have effect in relation to the Legislature of the State subject to such modifications and adaptations as may be made therein by the
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| **34** | **Current Affairs** | Consider the following statements:  
1. The United Nations Convention against Corruption (UNCAC) has a 'Protocol against the Smuggling of Migrants by Land, Sea and Air'.  
2. The UNCAC is the ever-first legally binding global anti-corruption instrument.  
3. A highlight of the United Nations Convention against Transnational Organized Crime (UNTOC) is the inclusion of a specific chapter aimed at returning assets to their rightful owners from whom they had been taken illicitly.  
4. The United Nations Office on Drugs and Crime (UNODC) is mandated by its members States to assist in the implementation of both | **C** | **Statement 1 is not correct and statement 2 is correct:** The United Nations Convention against Corruption (UNCAC), which entered into force in December 2005, is the ever-first binding global anti-corruption instrument. It obliges the States to prevent and criminalize different corrupt practices, **promote international cooperation, cooperate for the recovery of stolen assets** and enhance technical assistance and information exchange.  
**Statement 3 is not correct:** The UNTOC was adopted by General Assembly in 2000 and came into force in 2003. The Convention is the first comprehensive and global legally binding instrument to fight transnational organized crime. States that have ratified UNTOC commit themselves to taking a series of measures to prevent and control transnational | **D** | CA | [https://www.unodc.org/southasia/en/frontpage/2011/may/indian-govt-ratifies-two-un-conventions.html](https://www.unodc.org/southasia/en/frontpage/2011/may/indian-govt-ratifies-two-un-conventions.html) | **RR** |   |   |   |
UNCAC and UNTOC. Which of the statements given above are correct?
(a) 1 and 3 only
(b) 2, 3 and 4 only
(c) 2 and 4 only
(d) 1, 2, 3 and 4

organized crime, including (i) the criminalising of the participation in an organized criminal group, of money laundering, related corruption and obstruction of justice and (ii) the adoption of frameworks for extradition, mutual legal assistance and international cooperation. The UNTOC is further supplemented by three Protocols, which target specific forms of organized crime:
1) The Protocol to Prevent, Suppress and Punish Trafficking in Persons, Especially Women and Children, provides an agreed upon definition of trafficking in persons. It aims at comprehensively addressing trafficking in persons through the so-called three P's - Prosecution of perpetrators, Protection of victims and Prevention of trafficking.
2) The Protocol against the Smuggling of Migrants by Land, Sea and Air, also provides a definition of smuggling of migrants. The Protocol aims at preventing and controlling smuggling of migrants, promoting cooperation among States Parties, while protecting the rights of smuggled migrants.
3) The Protocol against the Illicit Manufacturing of and Trafficking in Firearms, their Parts and Components and Ammunition promotes, facilitates and strengthens cooperation among
States Parties in order to prevent and control the illicit manufacturing of and trafficking in firearms, their parts and components and ammunition by mainly committing Member States to introduce solid registration and storage systems for all legally produced arms.

**Statement 4 is correct:** The United Nations Office on Drugs and Crime (UNODC) is mandated by its Member States to assist in the implementation of both Conventions.
Consider the following statements:

1. As per recent amendment to the Indian Forest Act, 1927, forest dwellers have the right to fell the bamboos grown on forest areas.
2. As per the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006, bamboo is a minor forest produce.
3. The Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 allows ownership of minor forest produce to forest dwellers.

Which of the statements given above is/are correct?
(a) 1 and 2 only
(b) 2 and 3 only
(c) 3 only
(d) 1, 2 and 3

- **Statement 1 is not correct**: The Indian Forest (Amendment) Ordinance, 2017 exempts bamboo grown in non-forest areas from definition of tree, thereby dispensing with the requirement of felling/transit permit for its economic use.
- **Statement 2 is correct**: Minor Forest Produce (MFP) is defined under the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006, as all non-timber forest produce of plant origin, and includes bamboo, brushwood, stumps, canes, Tusser, cocoon, honey, waxes, Lac, tendu/kendu leaves, medicinal plants and herbs, roots, tuber and the like.
- **Statement 3 is correct**: The Forest Rights Act 2006 defines forest rights as inclusive of ‘Right of ownership, access to collect, use and dispose of minor forest produce which have traditionally been collected within or outside village boundaries’. Individuals, communities and gram sabhas having rights under this particular section of the Act will not only have the rights to use but also rights of ownership over MFPs.


Which Article of the Constitution of India safeguards one's right to marry the person of one's choice?
(a) Article 19 (b) Article 21 (c) Article 25 (d) Article 29

The right to marry a person of one's choice is integral to Article 21 (right to life and liberty) of the Constitution", the Supreme Court said Monday and set aside a 2017 order of the Kerala High Court which annulled the marriage of Kerala Muslim convert girl Hadiya and Shefin Jahan.

Consider the following statements:
1. According to the Indian Patents Act, a biological process to create a seed can be patented in India.
2. In India, there is no Intellectual Property Appellate Board.
3. Plant varieties are not eligible in the patented in India.
Which of the statements given above is/are correct?
(a) 1 and 3 only 
(b) 2 and 3 only 
(c) 3 only 
(d) 1, 2 and 3

Statement 1 is not correct and Statement 3 is correct: As per the Patents Act, 1970 - "plants and animals in whole or any part thereof other than microorganisms but including seeds, varieties and species and essentially biological processes for production or propagation of plants and animals" are inventions not patentable.

Statement 2 is not correct: The Intellectual Property Appellate Board, a quasi-judicial body, was constituted in September 1958. The Board is entrusted with the task of adjudication of disputes pertaining to copyright registration, assignment of copyright, grant of Licenses in respect of works withheld from public, unpublished Indian works, production and publication of translations and works for certain specified purposes. It also hears cases in other miscellaneous matters instituted before it under the Copyright Act, 1957.
| 38 | Environment | Consider the following statements: The Environment Protection Act, 1986 empowers the Government of India to 1. state the requirement of public participation in the process of environmental protection, and the procedure and manner in which it is sought 2. lay down the standards for emission or discharge of environmental pollutants from various sources 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 | C |
| 39 | Environment | As per the Solid Waste Management Rules, 2016 in India, which one of the following statements is correct? (a) Waste generator has to segregate waste five categories. (b) The Rules are applicable to notified urban local bodies, notified towns and all industrial townships only. (c) The Rules provide for exact and elaborate criteria. | C |

**Statement 1 is correct:** The Environment Impact Assessment Notification was made by the GOI in pursuance of the powers conferred on it by the Environment Protection Act [sub-section (1) and clause (v) of sub-section (2) of section 3 of the Environment (Protection) Act, 1986]. One of the most significant determinants of EIA is the procedure of Public Hearing (PH) and Public Participation (PP) on any developmental project.

**Statement 2 is correct:** As per Section 3 of the Environment Protection Act, the Government of India is empowered to make rules in the laying down standards for emission or discharge of environmental pollutants from various sources.

**The SWM Rules 2016** provide for detailed criteria for setting up solid waste processing and treatment facility, solid waste management in hilly areas, for waste to energy process, for Sanitary Landfills, for site selection, development of facilities at the sanitary landfills, specifications for land filling operations and closure on completion of landfilling, pollution...
<table>
<thead>
<tr>
<th>40</th>
<th>Current Affairs</th>
<th>Consider the following statements: As per the Industrial Employment (Standing Orders) Central (Amendment) Rules, 2018 1. if rules for fixed-term employment are implemented, it becomes easier for the firms/companies to lay off workers. 2. no notice of termination of employment shall be necessary in the case of temporary workman. 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.</th>
<th><strong>Statement 1 is correct:</strong> The government has notified fixed term employment for all sectors through an amendment to the Industrial Employment (Standing Orders) Central Rules, 1946. Fixed-term employment for all sectors will make it easier for companies to hire-and-fire workers along with reducing the role of middlemen. <strong>Statement 2 is correct:</strong> No notice of termination of employment shall be necessary in the case of temporary workman whether monthly rated, weekly rated or piece rated and probationers or badli workmen.</th>
<th>CA</th>
<th><a href="https://indianexpress.com/article/business/economy/industrial-employment-standing-orders-central-rules-1946-amendment-eases-hire-and-fire-to-reduce-middleman-role-5103765/">https://indianexpress.com/article/business/economy/industrial-employment-standing-orders-central-rules-1946-amendment-eases-hire-and-fire-to-reduce-middleman-role-5103765/</a></th>
<th>EN</th>
</tr>
</thead>
<tbody>
<tr>
<td>41</td>
<td>Science &amp; Technology</td>
<td>In the context of digital technologies for entertainment, consider the following statements: 1. In Augmented Reality (AR), a simulated environment is created and the physical world is completely shut out. 2. In Virtual Reality (VR), images generated from a computer are projected onto your eyes to create a completely virtual environment generated by a computer. You need to wear a special VR headset to experience virtual reality. Most VR headsets are connected to a computer (Oculus Rift) or a gaming console (PlayStation VR) but <strong>Virtual Reality technology immerses users in a completely virtual environment that is generated by a computer.</strong></td>
<td><strong>Virtual Reality technology immerses users in a completely virtual environment that is generated by a computer.</strong> You need to wear a special VR headset to experience virtual reality. Most VR headsets are connected to a computer (Oculus Rift) or a gaming console (PlayStation VR) but</td>
<td>FCA</td>
<td><a href="https://www.forbes.com/sites/quora/2018/02/02/the-difference-between-virtual-reality-augmented-reality-and-mixed-reality/#2f384">https://www.forbes.com/sites/quora/2018/02/02/the-difference-between-virtual-reality-augmented-reality-and-mixed-reality/#2f384</a></td>
<td>RR</td>
</tr>
</tbody>
</table>
real-life objects or surroundings.
3. AR allows individuals to be present in the world and improves the experience using the camera of smartphones or PC. 
4. VR closes the world, and transposes an individual, providing complete immersion experience. Which of the statements given above is/are correct? (a) 1 and 2 only (b) 3 and 4 (c) 1, 2 and 3 (d) 4 only

<table>
<thead>
<tr>
<th>Q</th>
<th>Current Affairs</th>
<th>B</th>
<th>D</th>
<th>U</th>
</tr>
</thead>
<tbody>
<tr>
<td>42</td>
<td>The word ‘Denisovan’ is sometimes mentioned in media in reference to (a) fossils of a kind of dinosaurs (b) an early human species (c) a cave system found in North-East India (d) a geological period in the history of Indian subcontinent</td>
<td>The first evidence for Denisovans or Denisova hominins was first discovered in 2008 in a cave in the Altai mountains in Siberia. Analysis of a fossil jawbone containing molars recovered from Baishiya Karst cave in Xiahe, Gansu, China shows Denisovans lived in the Tibetan Plateau some 1,60,000 years ago. This is the first time evidence of Denisovan presence has been found outside the Denisova cave.</td>
<td>8622d07</td>
<td><a href="https://www.thehindu.com/sci-tech/science/denisovans-lived-in-tibetan-plateau-fossil-evidence-shows/article2705280.ece">https://www.thehindu.com/sci-tech/science/denisovans-lived-in-tibetan-plateau-fossil-evidence-shows/article2705280.ece</a></td>
</tr>
</tbody>
</table>
With reference to the recent developments in science, which one of the following statements is not correct?

(a) Functional chromosomes can be created by joining segments of DNA taken from cells of different species.

(b) Pieces of artificial functional DNA can be created in laboratories.

(c) A piece of DNA taken out from an animal cell can be made to replicate outside a living cell in a laboratory.

(d) Cells taken out from plants and animals can be made to undergo cell division in laboratory petri dishes.

Options C and D are correct: Given appropriate surroundings, most plant and animal cells can live, multiply, and even express differentiated properties in a tissue-culture dish. The cells can be watched continuously under the microscope or analyzed biochemically, and the effects of adding or removing specific molecules, such as hormones or growth factors, can be explored. In addition, by mixing two cell types, the interactions between one cell type and another can be studied. Experiments performed on cultured cells are sometimes said to be carried out in vitro (literally, “in glass”) to contrast them with experiments using intact organisms, which are said to be carried out in vivo (literally, “in the living organism”).

Options B is correct: DNA is an organic chemical molecule made from atoms of carbon, hydrogen, nitrogen, oxygen, and phosphorous. Like many other organic molecules that are made inside living cells, DNA can also be synthesized in test tubes using the tools of organic chemistry. In most descriptions of DNA synthesis technology, we hear that DNA
sequences can be made by simply adding together the A's, T's, C's, and G's -- the "bases" that make the rungs of the twisted DNA ladder.

- **Options A is not correct:** Functional chromosomes cannot not be created by joining segments of DNA taken from cells of different species.

| 44 | Science & Technology | Consider the following statements: A digital signature is 1. an electronic record that identifies the certifying authority issuing it 2. used to serve as a proof of identity of an individual to access information or serve on Internet 3. an electronic method of signing an electronic document and ensuring that the original content is unchanged Which of the statements given above is/are correct? (a) 1 only (b) 2 and 3 only (c) 3 only (d) 1, 2 and 3 | D | Digital Signature Certificates (DSC) are the digital equivalent (that is electronic format) of physical or paper certificates. Examples of physical certificates are drivers' licenses, passports or membership cards. Certificates serve as a proof of identity of an individual for a certain purpose; for example, a driver’s license identifies someone who can legally drive in a particular country. Likewise, a digital certificate can be presented electronically to prove your identity, to access information or services on the Internet or to sign certain documents digitally. | M | FCA | https://defproc.gov.in/ncgep/app?page=DSCInfo&service=page | RR |

| 45 | Science & Technology | In the context of wearable technology, which of the following tasks is/are accomplished by wearable devices? 1. Location identification of a person 2. Sleep monitoring of a person | D | Wearable technology is a category of electronic devices that can be worn as accessories, embedded in clothing, implanted in the user’s body, or even tattooed on the skin. The devices are hands-free gadgets with practical uses, powered by | E | U | https://www.mdpi.com/1996-1073/11/3/547/pdf | RR |
3. Assisting the hearing impaired person
Select the correct answer using the code given below.
(a) 1 only
(b) 2 and 3 only
(c) 3 only
(d) 1, 2 and 3

- microprocessors and enhanced with the ability to send and receive data via the Internet.
  - Location- and position-tracking sensors (i.e., GPS, altimeter, magnetometer, compasses, and accelerometers) are the most common type of sensors on wearable devices, such as activity trackers, smartwatches, and even medical wearables where they are used to check the physical activity and health of patients.
  - Fitness trackers, also known as activity trackers, are typically worn on the wrist, chest, or ears, and are designed to monitor and track outdoor sport activities and measure fitness-related metrics, such as the speed and distance of running, exhalation, pulse rate, and sleeping habits.
  - In more recent times, there has been a new surge in wearable technology worn on the ear, referred to as hearables.
  - Hearing-Aids is a category of hearables involving use of a microphone, speaker and amplifier. This amplifies sounds to help people with hearing impairment hear. Example, Phonak Audeo V.
  - Hence, all the options are correct.
**46** Science & Technology

‘RNA interference (RNAi)’ technology has gained popularity in the last few years. Why?
1. It is used in developing gene silencing therapies.
2. It can be used in developing therapies for the treatment of cancer.
3. It can be used to develop hormone replacement therapies.
4. It can be used to produce crop plants that are resistant to viral pathogens.

Select the correct answer using the code given below.
(a) 1, 2 and 4
(b) 2 and 3
(c) 1 and 3
(d) 1 and 4 only

| A | • RNAi is a gene silencing technology that inhibits protein synthesis in target cells using double-stranded RNA.  
• RNAi has huge significance within the Indian context, considering the deep-seated resistance over the years to Bt cotton and other genetically modified seeds. RNA-reliant solutions could be a viable alternative.  
• RNAi is used in functional genomics (systematic analysis of loss-of-function phenotypes induced by RNAi triggers) and developing therapies for the treatment of viral infections, dominant disorders, neurological disorders, and many types of cancers (in vivo inactivation of gene products linked to human disease progression and pathology). |
|---|---|
| D | http://ncert.nic.in/ncerts/l/lcbo112.pdf  

**47** Science & Technology

Recently, scientists observed the merger of giant ‘blackholes’ billions of light-years away from the Earth. What is the significance of this observation?
(a) ‘Higgs boson particles’ were detected.
(b) ‘Gravitational waves’ were detected.
(c) Possibility of inter-galactic space travel through ‘wormhole’ was confirmed.
(d) It enabled the scientists to understand ‘singularity’.

<table>
<thead>
<tr>
<th>B</th>
<th>• The LIGO detectors discovered the first gravitational waves produced by two giant merging blackholes in 2016.</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td><a href="https://www.thehindu.com/opinion/editorial/awestruck-on-the-nobel-prize-for-physics/article19797660.ece">https://www.thehindu.com/opinion/editorial/awestruck-on-the-nobel-prize-for-physics/article19797660.ece</a></td>
</tr>
</tbody>
</table>

**EN** PT 365 Science and Technology Page 46

The 2017 Nobel Prize for physics has been awarded to the LIGO-VIRGO collaboration for their detection of gravitational waves arising from the merger of two black holes.
### Question 48

**Science & Technology**

Which of the following are the reasons for the occurrence of multi-drug resistance in microbial pathogens in India?

1. Genetic predisposition of some people
2. Taking incorrect doses of antibiotics to cure diseases
3. Using antibiotics in livestock farming
4. Multiple chronic diseases in some people

Select the correct answer using the code given below.

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

**Answer:**

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>48</td>
<td>Which of the following are the reasons for the occurrence of multi-drug resistance in microbial pathogens in India?</td>
<td>• <strong>Antibiotic consumption in Humans:</strong> In 2014, India was the highest consumer of antibiotics, followed by China and the United States. In India, antibiotic FDCs are heavily prescribed even without the knowledge of a proven advantage over single compounds. Injudicious use of antibiotic FDCs could lead to emergence of bacterial strains resistant to multiple antibiotics. (However, the per capita consumption of antibiotics in India is much lower than in several other high-income countries).</td>
<td><strong>Hence, 2 and 3 are correct.</strong></td>
<td></td>
</tr>
<tr>
<td>49</td>
<td>What is Cas9 protein that is often mentioned in news?</td>
<td><strong>CRISPR-Cas9 is a system used by bacterial cells to recognise and destroy viral DNA as a form of adaptive immunity. Using components of the CRISPR system, researchers can remove, add or alter specific DNA sequences in the genome of higher organisms.</strong></td>
<td><strong>The gene editing tool has two components — a single-guide</strong></td>
<td></td>
</tr>
</tbody>
</table>

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**Frequently seen in news.**
modified crops

RNA (sgRNA) that contains a sequence that can bind to DNA, and the Cas9 enzyme which acts as a molecular scissor that can cleave DNA.

Which one of the following statements is not correct?
(a) Hepatitis B virus is transmitted much like HIV.
(b) Hepatitis B, unlike Hepatitis C, does not have a vaccine.
(c) Globally, the number of people infected with Hepatitis B and C viruses are several times more than those infected with HIV.
(d) Some of those infected with Hepatitis B and C viruses do not show the symptoms for many years.

• Hepatitis B is a viral infection that attacks the liver and can cause both acute and chronic disease. The virus is transmitted through contact with the blood or other body fluids of an infected person. (HIV also gets transmitted via the exchange of a variety of body fluids from infected individuals, such as blood, breast milk, semen and vaginal secretions)
• The hepatitis B vaccine is the mainstay of hepatitis B prevention. WHO recommends that all infants receive the hepatitis B vaccine as soon as possible after birth, preferably within 24 hours. (Hence, option b is not correct)
• Hepatitis B is a global public health threat and the world’s most common serious liver infection. It is up to 100 times more infectious than the HIV/AIDS virus.
• In those people who develop symptoms from acute infection, the average time from exposure to symptoms ranges from 2 to 12 weeks. However, most people who are infected with the hepatitis C

Government launched the National viral hepatitis program.
Virus do not develop symptoms. Most people with chronic hepatitis C virus infection do not have any symptoms or have general, or common symptoms such as chronic fatigue and depression. Many people eventually develop chronic liver disease, which can range from mild to severe, including cirrhosis (scarring of the liver) and liver cancer. Chronic liver disease in people with hepatitis C usually happens slowly, without any signs or symptoms, over several decades.
With reference to Mughal India, what is/are the difference/differences between Jagirdar and Zamindar?

1. Jagirdars were holders of land assignments in lieu of judicial and police duties, whereas Zamindars were holders of revenue rights without obligation to perform any duty other than revenue collection.

2. Land assignments to Jagirdars were hereditary and revenue rights or Zamindars were not hereditary.

Select the correct answer using the code given below.

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

- The Sultan was the fountain pen of judiciary system in Mughal period. He was all in all in the state. He was responsible for any kind of error in the state. The second agency of judiciary was the Qazi. Qazi had a bigger role in the judiciary system in the state and he held the court and gave justice. Whereas Jagirdars were those mansabdars who were given salary in lieu of military service in terms of jagirs(land). Hence statement 1 is not correct.

- An important feature of the jagir system was shifting of jagir-holders from one jagir to another for administrative reasons. This system of transfers checked the jagirdars from developing local roots. Thus jagirs were transferable and could be seized too. Zamindars on the other hand were hereditary. The zamindars were present in practically every part of the Mughal Empire and held the most significant position in the agrarian structure of Mughal India. Hence statement 2 is not correct.
With reference to land reforms in independent India, which one of the following statements is correct?

(a) The ceiling laws were aimed at family holdings and not individual holdings.

(b) The major aim of land reforms was providing agricultural land to all the landless.

(c) It resulted in cultivation of cash crops as a predominant form of cultivation.

(d) Land reforms permitted no exemptions to the ceiling limits.

- The unit of application of ceiling differs from State to State. In Andhra Pradesh, Assam, Bihar, Punjab, Haryana, Uttar Pradesh, West Bengal, Madhya Pradesh and Maharashtra, it is on the basis of an 'land holder', whereas in the other States it is one the basis of a 'family'.

- Moreover, there were a list of exemptions to ceiling limits by different states.

- In order to bring about uniformity, a new policy was evolved in 1971. The main features were:
  - Lowering of ceiling to 28 acres of wet land and 54 acres of unirrigated land
  - A change over to family rather than the individual as the unit for determining land holdings lowered ceiling for a family of five.
  - Fewer exemptions from ceilings
  - Retrospective application of the law for declaring benami transactions null and void; and
  - No scope to move the court on ground of infringement of fundamental rights.

- Therefore, Options (a) and (d) are not correct.

- After Independence, the immediate goal of the
Government was to increase foodgrains production by (i) switching over from cash crops to food crops; (ii) intensification of cropping over already cultivated land; and (iii) increasing cultivated area by bringing cultivable and fallow land under plough.

- Therefore, Land reforms were not focussed on cash crops and hence it did not lead to cash crops being predominant form of cultivation. Also, the Land reforms in Haryana and Punjab were the reason for introducing Green Revolution. It focussed more on food crops production as predominant form of cultivation and not cash crops. Therefore, **Option (c) is not correct.**
- The Land Reforms in India aimed at the redistribution of ownership holdings and reorganising operational holdings from the view point of optimum utilisation of land. It has also aimed at providing security of tenure, fixation of rents and conferment of ownership. **Hence, option (b) is correct.**

Consider the following statements about ‘the Charter Act of 1813’:
1. It ended the trade monopoly of the East India Company in India except for trade in tea and trade with China.
2. It asserted the sovereignty of the British Crown over the Indian territories held by the Company.
3. The revenues of India were now controlled by the British Parliament.
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

**Main Provisions of Charter Act, 1833**
- Monopoly of East India Company to trade with India was brought to an end but the company retained the trade with China and the trade in tea. **Hence statement 1 is correct.**
- The company’s shareholders were given a 10.5 percent dividend on the revenue in India.
- The company was allowed to continued territorial possession for period of 20 years i.e. from 1833 to 1853, without prejudice to the sovereignty of the Crown. The company was held in trust to the Crown. **Hence statement 2 is correct.**
- The Charter Act of 1813 required the Company to maintain its territorial and commercial accounts separately. By this Act the Company was put under greater control of the British Crown, but could retain its
Hold on the details of administration and Indian revenues. From 1853, the revenues of India were controlled by the British Parliament. Hence, Statement 3 is not correct.

With reference to Swadeshi Movement consider the following statements:
1. It contributed to the revival of the indigenous artisan crafts and industries.
2. The National Council of Education was established as a part of Swadeshi Movement.
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

The Swadeshi Movement had its genesis in the anti-partition movement which was started to oppose the British decision to partition Bengal.

The Swadeshi Movement was the great emphasis given to self-reliance or ‘Atmasakti’ as a necessary part of the struggle against the Government. One of the major planks of the programme of self-reliance was Swadeshi or national education. In August 1906, the National Council of Education was established.

The Council defined its objectives in this way... ‘to organize a system of Education Literary; Scientific and Technical — on National lines and under National control from the primary to the university level.'

The most important aspect of the movement was a focus on self-reliance or Atma-shakti which led to the development of indigenous industries.

All India Test Series Test 2676
The ‘Swadeshi’ movement led to:
1. Establishment of National Council of Education.
2. The inclusion of the Muslim mass into the Indian Freedom Movement.
3. Immediate annulment of the partition of Bengal.
Select the correct answer using the code given below.
(a) 1 only
(b) 1 and 2 only
(c) 2 and 3 only
(d) 1, 2 and 3

With reference to Swadeshi and Boycott movement, consider the following statements:
1. Indian National Congress adopted the resolution of supporting Swadeshi and Boycott movement at its Calcutta Session (1906).
2. It led to decline in the import of foreign goods.
### Question

Consider the following pairs:

<table>
<thead>
<tr>
<th>Movement/Organization</th>
<th>Leader</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. All India Anti-Untouchability League</td>
<td>Mahatma Gandhi</td>
</tr>
<tr>
<td>2. All India Kisan Sabha</td>
<td>Swami Sahajanand Saraswati</td>
</tr>
<tr>
<td>3. Self-Respect Movement</td>
<td>E. V. Ramaswami Naicker</td>
</tr>
</tbody>
</table>

Which of the pairs given above is/are correctly matched?

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

### Explanation

The most important aspect of the movement was a focus on self-reliance or Atma-shakti which led to the development of indigenous industries and nationalistic institutes like Bengal National College founded by Aurobindo Ghosh, Bengal Technical Institute, National Council of Education.

### Answer

- Pair 1 is correctly matched.

### Related Facts

- In order to better organize the campaign for the amelioration of the untouchables' condition, **Gandhi set up a new body in October 1932. It was first named the All India Anti-Uncountability League and later renamed the Harijan Sevak Sangh. Gandhi started publishing a weekly journal called "Harijan" on 11 February 1933 from Yerwada Jail during British rule. Hence pair 1 is correctly matched.**
- All India Kisan Congress
- Temple Entry Bill, 1934

### Additional Information

- With respect to Mahatma Gandhi's social reform movements, consider the following statements:
  1. He set up All India Anti-Uncountability League.
  2. He started a weekly journal Harijan.
  3. He was pioneer in passing of Temple Entry Bill, 1934
Sabha, 1936 was founded in Lucknow in April 1936 with Swami Sahjanand Saraswati as the President and N.G. Ranga as the general secretary. Hence, pair 2 is correctly matched.

- E. V. Ramaswami Naicker organized the "Self Respect Movement", designed as Dravidian Uplift, seeking to expose Brahminical tyranny and the deceptive methods by which they controlled all spheres of Hindu life. Hence, pair 3 is correctly matched.

Which of the statements given above is/are correct?
(a) 1 and 2 only
(b) 2 and 3 only
(c) 1 only
(d) 3 only

Consider the following pairs:

1. Bhagat Singh Naujawan Bharat Sabha
2. Sahajanand Saraswati All India Kisan Sabha

Which of the pairs given above is/are correctly matched?
(a) 1 only
(b) 1 and 3 only
(c) 2 only
(d) 1, 2 and 3

Consider the following statements about Periyar E.V. Ramasamy:
1. He opposed Brahmanical domination.
2. He participated in the non-cooperation movement, offered satyagraha and defended khadi.
3. He gave full support to the scheme for Pakistan after Lahore resolution of Muslim League.

Which of the statements given above are correct?
<table>
<thead>
<tr>
<th>57</th>
<th>Ancient History</th>
<th>Which one of the following is not a Harappan site?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(a) Chanhudaro</td>
<td>• Sohagura is located in Gorakhpur district of U.P. is a copper plate inscription found here. Here, Ashokan inscriptions were found. Whereas, Chanhudaro, Kot Diji, Desalpur are Harappan sites.</td>
</tr>
<tr>
<td></td>
<td>(b) Kot Diji</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(c) Sohagura</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(d) Desalpur</td>
<td></td>
</tr>
</tbody>
</table>

**Explanation:**
Naicker was active in the Congress-led freedom struggle for sometime. He participated in the non-cooperation movement, offered satyagraha and defended khadi. Protesting against the Brahmanical dominance in high politics, he quit Congress and developed Dravidian cultural alternatives to the prevailing hegemonic Brahminical culture. In 1925, he organized the "Self Respect Movement", designed as Dravidian Uplift, seeking to expose Brahminical tyranny and the deceptive methods by which they controlled all spheres of Hindu life.
### Question 58

**Ancient History**

In which of the following relief sculpture inscriptions is ‘Ranyo Ashoka’ (King Ashoka) mentioned along with the stone portrait of Ashoka?

(a) Kanganahalli  
(b) Sanchi  
(c) Shahbazgarhi  
(d) Sohgaura

- **A**
  - Kanganahalli is about 3 km from Sannati, Karnataka. Here, excavation found mentions ‘Ranyo Ashoka’ (King Ashoka) mentioned along with the stone portrait of Ashoka.

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### Question 59

**Art & Culture**

Consider the following statements:

1. Deification of the Buddha  
2. Trading the path of Bodhisattvas  
3. Image worship and rituals

Which of the above is/are the feature/features of Mahayana Buddhism?

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

- **D**
  - The emergence of Bodhisattva is central to Mahayana sect of Buddhism, which emerged during the fourth council of Buddhism held in 1st century A.D at Kashmir during the reign of Kanishka. Bodhisattvas were perceived as deeply compassionate beings who accumulated merit through their efforts but used this not to attain Nirvana and thereby abandon the world but to help others. The worship of images of the Buddha and Bodhisattvas became an important part of this tradition. 

Hence all the statements are correct.

---

### Question 60

**Ancient History**

With reference to forced labour (Vishti) in India during the Gupta period, which one of the following statements is/are correct?

(a) It was considered a source of income for the State, a sort of tax paid by the people.  
(b) It was totally absent in the Madhya Pradesh and Kathiawar region of the Gupta Empire.

- **A**
  - Forced labour (vishti) is a forced labour which became more common than before in 300-600 C. It is mentioned along with taxes in land grant inscriptions which suggests that it was considered as a source of income for the state, a sort of tax paid by the people.

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<table>
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<tr>
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<th>Answer</th>
</tr>
</thead>
</table>
| 58              | Ancient History | In which of the following relief sculpture inscriptions is ‘Ranyo Ashoka’ (King Ashoka) mentioned along with the stone portrait of Ashoka? | (a) Kanganahalli  
(b) Sanchi  
(c) Shahbazgarhi  
(d) Sohgaura |
| 59              | Art & Culture | Consider the following statements:  
1. Deification of the Buddha  
2. Trading the path of Bodhisattvas  
3. Image worship and rituals
Which of the above is/are the feature/features of Mahayana Buddhism? | (a) 1 only  
(b) 1 and 2 only  
(c) 2 and 3 only  
(d) 1, 2 and 3 |
| 60              | Ancient History | With reference to forced labour (Vishti) in India during the Gupta period, which one of the following statements is/are correct?  
(a) It was considered a source of income for the State, a sort of tax paid by the people.  
(b) It was totally absent in the Madhya Pradesh and Kathiawar region of the Gupta Empire. | (a) It was considered a source of income for the State, a sort of tax paid by the people.  
(b) It was totally absent in the Madhya Pradesh and Kathiawar region of the Gupta Empire. |
(c) The forced labourer was entitled to weekly wages.
(d) The eldest son of the labourer was sent as the forced labourer.

61. Modern History
Which one of the following groups of plants was domesticated in the ‘New World’ and introduced into the ‘Old World’?
(a) Tobacco, cocoa and rubber
(b) Tobacco, cotton and rubber
(c) Cotton, coffee and sugarcane
(d) Rubber, coffee and wheat

A • After the voyages of Christopher Columbus in 1492, the Columbian exchange brought New World crops such as maize, potatoes, sweet potatoes, and manioc to Europe, and Old World crops such as wheat, barley, rice, and turnips, and livestock including horses, cattle, sheep, and goats to the Americas.


RR
### Environment

Consider the following statements:

1. Asiatic lion is naturally found in India only.
2. Double-humped camel is naturally found in India only.
3. One-horned rhinoceros is naturally found in India only.

Which of the statements given above is/are correct?
(a) 1 only  
(b) 2 only  
(c) 1 and 3 only  
(d) 1, 2 and 3

- **Statement 1 is correct:** Asiatic Lion is found naturally in India only. Gir National Park is the last natural habitat of this species.
- **Statement 2 is not correct:** The Bactrian camel or Double-humped camel is a large, even-toed ungulate native to the steppes of Central Asia. In India, it is found in the Nubra valley.
- **Statement 3 is not correct:** One-horned rhino is naturally found in areas of Assam such as Kaziranga National Park, India and also in Chitwan National Park (CNP) of Nepal.

---

### M U

- [http://pib.nic.in/newsite/PrintRelease.asp?relid=18668](http://pib.nic.in/newsite/PrintRelease.asp?relid=18668)  
- [https://www.thebetterindia.com/158673/bactrian-camel-nubra-valley-ladakh/](https://www.thebetterindia.com/158673/bactrian-camel-nubra-valley-ladakh/)

---

### RR

**Asked in 2683.**
(Add the link to the New Delhi Declaration on Asian Rhinos 2019)

Consider the following statements on the New Delhi Declaration on Asian Rhinos 2019:

1. It was signed by India and China to conserve Asian rhinos.
2. The declaration envisages trans-boundary collaboration and local community engagement for rhino conservation.

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

**Asked in 2669, 2860:**

With reference to the recently launched Asiatic Lions Conservation Project, consider the following statements:

1. It aims to double the population of Asiatic lions to 500.
2. It will be funded through the centrally sponsored scheme 'Development of Wildlife Habitat'.
3. It has been launched by the Zoological Survey Government

---

**Government Launched Asiatic Lion Conservation Project; New Delhi Declaration on Asian Rhinos 2019**
### 63 Geography

Consider the following pairs:

1. Pandharpur : Chandrabhaga
2. Tiruchirappalli : Cauvery
3. Hampi : Malaprabha

Which of the pairs given above are correctly matched?

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

#### A

- **Pandharpur** is a well known pilgrimage town on the banks of **Chandrabhaga** River in Solapur district, Maharashtra, India.
- **Tiruchirapalli** District is located along the **Kaveri** River in Tamil Nadu, India.
- **Hampi** is city near the **Tungabhadra** River, with numerous temples, farms and trading markets.

#### D

- **Atlas**
- **RR**

### 64 Economics

In a given year in India, official poverty lines are higher in some States than in others because

- (a) poverty rates vary from State to State
- (b) price levels vary from State to State
- (c) Gross State Product varies from State to State
- (d) quality of public distribution varies from State to State
- (e) a large proportion of household income of India.

Which of the statements given above is/are correct?

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

#### B

The Planning Commission methodology for estimating poverty at national and state level was regarded by some as inappropriate in giving a representative picture of the incidence of poverty in the country. The main points of the criticism were:

- (a) the adjustment procedure;
- (b) the choice of deflators to represent price changes in the poverty line;
- (c) application of the same poverty line in all the states, which imply the absence of price differentials across the states;
- (d) use of a fixed consumption basket over time; and
- (e) the uniform consumption basket for all the states.

#### D

- **FA**
- [http://planningcommission.nic.in/reports/genreppovrep0707.pdf](http://planningcommission.nic.in/reports/genreppovrep0707.pdf)
- **RR**
65 Environment

In the context of which of the following do some scientists suggest the used of cirrus cloud thinning technique and the injection of sulphate aerosol into stratosphere?
(a) Creating the artificial rains in some regions
(b) Reducing the frequency and intensity of tropical cyclones
(c) Reducing the adverse effects of solar wind on the Earth
(d) Reducing the global warming

D

- The geo-engineering technique known as stratospheric aerosol injection (SAI) could limit rising temperatures that are causing climate change.
- Cloud thinning strategy would be used to shoot powder over cirrus clouds, which would thin out their coverage and alter their radiative effects over Earth.

E CA


EN

PT 365 Environment Page 5
All India Test Series Test 2667
'Stratospheric Aerosol Injection (SAI)' a geoengineering technique would be most useful for which of the following purpose?
(a) Reduction of Carbon dioxide emissions
(b) Clear visibility for fighter jets
(c) Mitigate Global Warming
(d) Cloud seeding

66 Environment

In the context of which one of the following are the terms ‘pyrolysis and plasma gasification’ mentioned?
(a) Extraction of rare earth elements
(b) Natural gas extraction technologies
(c) Hydrogen fuel-based automobiles
(d) Waste-to-energy technologies

D

- Pyrolysis: Pyrolysis is the process of heating organic material at high temperatures in the absence of oxygen.
- Plasma Gasification: Plasma gasification is an extreme thermal process using plasma which converts organic matter into a syngas (synthesis gas) which is primarily made up of hydrogen and carbon monoxide.

E FCA

https://www.thehindu.com/sci-tech/energy-and-environment/plastic-surgery/article25604517.ece

EM

PT 365 Environment Page 39
MONTHLY REVISION CURRENT AFFAIRS
Which of the following technology/methods is/are used for producing energy from waste?
1. Incineration
2. Biomethanation
3. Pyrolysis
4. Gasification
Select the correct answer from the code given below.
(a) 1, 2 and 3 only
(b) 1, 3 and 4
(c) 2 and 4
(d) 1, 2, 3 and 4

Recently, the forest department, after a High Court order, granted permission
Shendurney Wildlife Sanctuaries; and Kalakad Mundanthurai Tiger Reserve (b) Mudumalai, Sathyamangalam and Wayanand Wildlife Sanctuaries; and Silent Valley National Park (c) Kaundinya, Gundla Brahmeswaram and Papikonda Wildlife Sanctuaries; and Mukurthi National Park (d) Kawal and Sri Venkateswara Wildlife Sanctuaries; and Nagarjunasagar-Srisailam Tiger Reserve

reservoir of cultivated plants. Three wildlife sanctuaries, Shendurney, Peppara and Neyyar, are located in the site, as well as the Kalakad Mundanthurai Tiger reserve.

Consider the following statements:
1. Some species of turtles are herbivores.
2. Some species of fish are herbivores.
3. Some species of marine mammals are herbivores.
4. Some species of snakes are viviparous.
Which of the statements given above are correct?
(a) 1 and 3 only
(b) 2, 3 and 4 only
(c) 2 and 4 only
(d) 1, 2, 3 and 4

| 68 | Environment | D | • **Statement 1 is correct:** Green sea turtles eat seagrasses and algae, though juveniles snack on crabs, sponges, and jellyfish. In the wild, they can live up to 80 years and grow up to five feet long. Once mature, it is the only sea turtle that is strictly herbivorous. | U | https://sciencing.com/list-herbivores-ocean-8599405.html |
| RR | to women to trek the Agasthyarkoodam peak for the first time in history. This was due to the difficult terrain and resistance from the Kani Tribe, a group of indigenous people who opposed women entry at the peak. Agasthyakoodam is situated in the Peppara Forest Range and included in the UNESCO World Heritage List under Agasthyamala Biosphere Reserve. |
**Statement 3 is correct:** The diet of Manatees consists of water grasses, weeds, and algae. Dugongs are related to manatees, which are both endangered and protected animals. These slow-moving herbivores graze on underwater grasses, rooting them out with bristled, sensitive snouts and chomping them with rough lips.

**Statement 4 is correct:** Snakes that are viviparous nourish their developing young through a placenta and yolk sac, something that is highly unusual among reptiles. Boa constrictors and green anacondas are two examples of viviparous snakes, meaning they give birth to live young with no eggs involved at any stage of development.

### Environment

Consider the following pairs:

1. Blue-finned Mahseer : Cauvery River
2. Irrawaddy Dolphin : Chambal River
3. Rusty-spotted Cat : Eastern Ghats

Which of the pairs given above are correctly matched?

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

**Blue-finned Mahseer** is found naturally in the **Cauvery river**.

**The Irrawaddy dolphin** is a critically endangered species. It is found near sea coasts and in estuaries and rivers in parts of the Bay of Bengal and Southeast Asia. In **India**, it is found in Lake Chilika and not the Chambal river.

**Rusty Spotted Cat** is one of the world's smallest feline.

**FCA**


**EM**

PT 365 Environment page 25

**Asked in 2880**

Recently been given Critically Endangered status, the Hump-backed mahseer fish, which is also known as the 'tiger of the river', is most likely to be found in:

(a) Ganga-Brahmaputra basin  
(b) Cauvery basin
The rusty spotted cat, one of the few wild cats that inhabit the forests of **Andhra Pradesh**, is among the animals in the Eastern Ghats.

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| 70 | Environment | Why is there a great concern about the ‘microbeads’ that are released into the environment? (a) They are considered harmful to marine ecosystems. (b) They are considered to cause skin cancer in children. (c) They are small enough to be absorbed by crop plants in irrigated fields. (d) They are often found to be used as food adulterants. | A | - Microbeads are manufactured solid plastic particles of less than one millimeter in their largest dimension. They are most frequently made of polyethylene but can be of other petrochemical plastics such as polypropylene and polystyrene. Microbeads, small pellets of plastic, extensively used in personal care products such as toothpastes. | E | FCA | https://www.thehindu.com/sci-tech/energy-and-environment/fedding-on-microplastics-a-scourge-stalks-the-sea/article25527355.ece | EN | PT 365 Environment Page 17 Asked in 2668 With reference to microbeads (microplastics), consider the following statements: 1. They are plastic pieces measuring less than 5 mm. 2. They are found in cosmetics, toothpastes, and frequently seen in news. |
| 71 | Art & Culture | Building ‘Kalyaana Mandapas’ was a notable feature in the temple construction in the kingdom of
(a) Chalukya  (b) Chandela  
(c) Rashtrakuta  
(d) Vijayanagara | D | 
- A kalyana mandapa was meant to celebrate divine weddings in Vijayanagara Empire. |
72 | Medieval History | Consider the following statements:
1. In the revenue administration of Delhi Sultanate, the in-charge of revenue collection was known as ‘Amil’. **Hence statement 1 is correct.**
2. The Iqta system of Sultans of Delhi was an ancient indigenous institution.
3. The office of ‘Mir Bakshi’ came into existence during the reign of Khalji Sultans of Delhi.
Which of the statements given above is/are correct?
(a) 1 only  
(b) 1 and 2 only  
(c) 3 only  
(d) 1, 2 and 3 | A | 
- In the revenue administration of Delhi Sultanate, the in-charge of revenue collection was known as ‘Amil’.
- The initial Turkish conquests in India in the early 13th century displaced many local chiefs. In order to consolidate, the Turkish rulers made revenue assignments (Iqta), in lieu of cash, to their nobles. So, Iqtas were provinces or spheres of influence which were put under the charge of officers called ‘Iqtadars’ (governors). Iqta is an Arabic word and the institution had been in force in the early Islamic world as a form of reward for
services to the state. It was used in the Caliphate administration as a way of financing operations and paying civil and military officers. It was not an ancient indigenous institution. Hence statement 2 is not correct.

- In Akbar’s administration, the military department was headed by Mir Bakshi which looked after all matters pertaining to the military administration. He was also considered as the head of nobility. Hence statement 3 is not correct.
| 73 | Medieval History | Consider the following statements:  
1. Saint Nimbarka was a contemporary of Akbar.  
2. Saint Kabir was greatly influenced by Shaikh Ahmad Sirhindi.  
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 |
|---|---|---|
| D | • Nimbarka, a Telugu Brahmin, is believed to have been a younger contemporary of Ramanuja (11th Century). He spent most of his time in Vrindavan near Mathura in North India. He believed in total devotion to Krishna and Rama. The Mughal emperor Akbar lived from 1542-1605.  
Hence statement 1 is not correct.  
• Naqshbandi Sufi Saint Shaikh Ahmad Sirhindi was in Haryana in the period of 1624. Whereas Kabir Das, is a 15th century mystical poet and great Bhakti Saint of India. He is the most important Nirguna Bhakti saint. The nirguna bhaktas were devotees of a formless God even while calling him variously as Rama, Govinda, Hari or Raghunatha. Hence statement 2 is not correct. |
| 74 | Modern History | With reference to the British colonial rule in India, consider the following statements:  
1. Mahatma Gandhi was instrumental in the abolition of the system of ‘indentured labour’.  
2. In Lord Chelmsford’s War Conference’, Mahatma Gandhi did not support the resolution on recruiting Indians for World War.  
3. Consequent upon the |
| B | • Mahatma Gandhi was instrumental in the abolition of the system of ‘indentured labour’ in South Africa. Moderates supported the First World War.  
Hence statement 2 is not correct. Congress was declared illegal by British government after the launch of second phase of Civil Disobedience Movement. It was not a factor that favoured in launching of second phase of Civil Disobedience Movement.  
| M | F | Spectrum | EM | All India Test Series Test 2664 | With reference to the nationalist response to British participation in the First World War, consider the following statements:  
1. While the moderates supported the Britain in the war, extremists opposed the move.  
2. The revolutionaries saw the war as an |
breaking of Salt Law by Indian people, the Indian National Congress was declared illegal by the colonial rulers.

Which of the statements given above are correct?
(a) 1 and 2 only
(b) 1 and 3 only
(c) 2 and 3 only
(d) 1, 2 and 3

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

<table>
<thead>
<tr>
<th>75</th>
<th>Modern History</th>
</tr>
</thead>
<tbody>
<tr>
<td>With reference to Indian National Movement, consider the following pairs: <strong>Person</strong></td>
<td><strong>Position held</strong></td>
</tr>
<tr>
<td>1. Sir Tej Bahadur Sapru</td>
<td>President, All India Liberal Federation</td>
</tr>
<tr>
<td>2. K. C. Neogy</td>
<td>Member, The Constituent Assembly</td>
</tr>
<tr>
<td>3. P. C. Joshi</td>
<td>General Secretary, Communist Party of India</td>
</tr>
<tr>
<td>Which of the pairs given above is/are correctly matched?</td>
<td></td>
</tr>
<tr>
<td>(a) 1 only</td>
<td></td>
</tr>
<tr>
<td>(b) 1 and 2 only</td>
<td></td>
</tr>
<tr>
<td>(c) 3 only</td>
<td></td>
</tr>
<tr>
<td>(d) 1, 2 and 3</td>
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</tr>
</tbody>
</table>

D: **Tej Bahadur Sapru was a prominent Indian freedom fighter, lawyer and politician.**
When the Montagu report of 1918 was made public, there was a divide in the Congress over it. The moderates welcomed it while the extremists opposed it. This led to a schism in the Congress with moderate leaders forming the "Indian National Liberal Federation" in 1919. The party (INLF) was founded by Surendra Nath Banerjea and some of its prominent leaders were **Tej Bahadur Sapru**, V. S. Srinivasa Sastri and M. R. Jayakar.

**KC Neogy, was an Indian politician from West Bengal.** He was a member of the Constituent Assembly of India, member of the first Cabinet of independent India and the chairman of the first Finance Commission of India.

**Puran Chand Joshi, one of the early leaders of the communist movement in...**
### Medieval History

#### 76

**Question:** With reference to Mian Tansen, which one of the following statements is **not** correct?

- (a) Tansen was the title given to him by Emperor Akbar.
- (b) Tansen composed Dhrupada on Hindu gods and goddesses.
- (c) Tansen composed songs on his patrons.
- (d) Tansen invented many Ragas.

**Answer:**

- **A** Tansen was the most important musician during the reign of Akbar & is credited with composing many ragas. Tansen was one of the best known dhrupad singers and one of the nine jewels of Emperor Akbar’s court. He composed songs on his patrons. **Tansen was the title given to him by Raja Vikramjit of Gwalior.** Tansen was a court musician in the darbar of Raja Ramachandra of Bandavagarh (Rewa).
- **D** When Akbar heard of his prodigious talent, he sent a ‘firman’ to the king asking for Tansen and made him one of the Navaratnas in his court. He gave him the title of ‘Mian’. Hence all the statements are correct except statement (a).

**URL:** [https://www.thehindu.com/entertainment/music/the-legend-of-mian-tansen/article22893454.ece](https://www.thehindu.com/entertainment/music/the-legend-of-mian-tansen/article22893454.ece)

### Medieval History

#### 77

**Question:** Who among the following Mughal Emperors shifted emphasis from illustrated manuscripts to album and individual portrait?

- (a) Humayun
- (b) Akbar
- (c) Jahangir
- (d) Shah Jahan

**Answer:**

- **C** With the establishment of the Mughal empire, the **Mughal School of painting originated in the reign of Akbar in 1560 A.D.** Emperor Akbar was keenly interested in the art of painting and architecture. **During his reign, an illustrated manuscript of the Tuti-nama appears to be the first work of the Mughal.**

**URL:** [http://ccrtindia.gov.in/miniatu...painting.php](http://ccrtindia.gov.in/miniatu...painting.php)

**Emphasis:** All India Test Series Test 2662

Which one of the following statements is **not** correct about the development of paintings during the Mughal period in India?

- (a) Mughal painting reached its climax under the reign of Jahangir.
The style of painting in this manuscript shows the Mughal style in its formative stage. Shortly after that, between 1564-69 A.D. was completed a very ambitious project in the form of Hamza nama illustrations on cloth, originally consisting of 1400 leaves in seventeen volumes. Each leaf measured about 27”x20”. The style of Hamzanama is more developed and refined than that of the Tuti nama.

- Under Jahangir, painting acquired greater charm, refinement and dignity. He had great fascination for nature and took delight in the portraiture of birds, animals and flowers.

Explanation:
Mughals made a distinctive contribution in the field of painting by introducing new themes, new colors, and new forms. Mughal painting reached climax under the reign of Jahangir. Jahangir claims that he could distinguish the work of each artist in the picture. Under Jahangir, special focus was paid on portrait painting and paintings of animals.

Environment
Which one of the following National Parks lies completely in the temperate alpine
(a) Manas National Park
(b) Namdahpa National Park
(c) Neora Valley National Park
(d) Valley of Flowers National Park

A sprawling expanse of 87 square kilometers in the Chamoli District of Uttarakhand, Valley of Flowers is set in the backdrop of the majestic Zanskar Ranges. The valley is situated at a very remarkable area, which is the conversion point of Himalayan ranges, Zanskar and Western and Eastern

EM
Which of the following is/are present in Himachal and Uttarakhand Himalayas?
1. Valley of Flowers
2. Dun Formation
3. Nagtibba hills
Select the correct answer using the code given below.
| 79 | Current Affairs | Atal Innovation Mission is set up under the (a) Department of Science and Technology (b) Ministry of Labour and Employment (c) NITI Aayog (d) Ministry of Skill Development and Entrepreneurship |  
| | | C | - The Atal Innovation Mission (AIM) is a flagship initiative set up by the NITI Aayog to promote innovation and entrepreneurship across the length and breadth of the country.  
- AIM’s objectives are to create and promote an ecosystem of innovation and entrepreneurship across the country at school, university, research institutions, MSME and industry levels. | E | CA [http://vikipedia.in/education/policies-and-schemes/atal-innovation-mission](http://vikipedia.in/education/policies-and-schemes/atal-innovation-mission) | EN | PT 365 Polity Page 19 |
| 80 | Geography | On 21st June, the Sun (a) does not set below the horizon at the Arctic Circle (b) does not set below the horizon at Antarctic Circle (c) shines vertically overhead at noon on the Equator (d) shines vertically overhead at the Tropic of Capricorn |  
| | | A | - On 21st June, the Sun is directly over Tropic of Cancer. Geometrically, it means the Sun is normal (90°) to Tropic of Cancer and makes an angle of 47° to the Arctic Circle. As such, the Sun is above the horizon for all areas north of Arctic Circle. The entire area in the Arctic circle experiences day. The North Pole is inclined towards the sun and the places beyond the Arctic Circle experience continuous daylight for about six months. Since a large portion of the Northern Hemisphere is getting light from the sun, it is summer in the regions north of the equator. The longest day and the shortest night at these | M | F | G C Leong, NCERT - Fundamentals of Physical Geography | EM |
places occur on 21st June.

• At this time in the Southern Hemisphere all these conditions are reversed. It is winter season there. The nights are longer than the days. This position of the earth is called the Summer Solstice.

Consider the following statements:
1. Agricultural soils release nitrogen oxides into environment.
2. Cattle release ammonia into environment.
3. Poultry industry releases reactive nitrogen compounds into environment.

Which of the statements given above is/are correct?
(a) 1 and 3 only
(b) 2 and 3 only
(c) 2 only
(d) 1, 2 and 3

• **Statement 1 is correct**: A major direct source of nitrous oxide from agricultural soils is that of synthetic fertilizer use. Where large applications of fertilizer are combined with soil conditions favorable to denitrification, large amounts of nitrous oxide can be produced and emitted to the atmosphere.

• **Statement 2 is correct**: Ammonia is a common by-product of animal waste due to the often inefficient conversion of feed nitrogen into animal product. Emissions of ammonia from livestock farming are responsible for the acidification and eutrophication of deposited ammonia in the environment.

• **Statement 3 is correct**: Reactive nitrogen includes – ammonia, nitrate, nitric oxide (NO), nitrous oxide (N2O). Livestock and Poultry are both responsible for emissions of these.

The annual *Frontiers* report 2019 published by the United Nations (UN), has included a chapter on nitrogen pollution in its latest edition, in a sign that pollution caused by the reactive forms of nitrogen is now being recognised as a grave environmental concern on a global level.
82 Geography

What is common to the places known as Aliyar, Isapur and Kangsabati?
(a) Recently discovered uranium deposits
(b) Tropical rain forests
(c) Underground cave systems
(d) Water reservoirs

D

• Aliyar is a village located near Pollachi Town in Coimbatore district in Tamil Nadu, India. The famous Aliyar Reservoir is located in this village.
• Isapur Dam is an earthfill dam on Penganga river near Pusad in the state of Maharashtra.
• The Kangsabati Reservoir Project was started in 1956 as part of the Indian Second Five-year Plan to provide water to 3,484.77 square kilometres (1,345.48 sq mi) of land in the districts of Midnapur(erswhile), Bankura, and Hooghly. It involves irrigation land using water from the Kangsabati River, as well as the Shilabati and the Bhoirobbanki rivers.


83 Environment

In the context of proposals to the use of hydrogen-enriched CNG (H-CNG) as fuel for buses in public transport, consider the following statements:
1. The main advantage of the use of H-CNG is the elimination of carbon monoxide emissions.

B

• Statement 1 is not correct and statements 2 and 3 are correct: H-CNG is a blend of hydrogen and CNG, the ideal hydrogen concentration being 18%. Compared to conventional CNG, use of H-CNG can reduce emission of carbon monoxide up to 70%.

M

2. H-CNG as fuel reduces carbon dioxide and hydrocarbon emissions.
3. Hydrogen up to one-fifth by volume can be blended with CNG as fuel for buses.
4. H-CNG makes the fuel less expensive than CNG.

Which of the statements given above is/are correct?
(a) 1 only
(b) 2 and 3 only
(c) 4 only
(d) 1, 2, 3 and 4

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84 Geography

Why are dewdrops not formed on a cloudy night?
(a) Clouds absorb the radiation released from the Earth's surface.
(b) Clouds reflect back the Earth's radiation.
(c) The Earth's surface would have low temperature on cloudy nights.
(d) Clouds deflect the blowing wind to ground level.

Dew is not formed:
- on cloudy nights because cloudy nights are warmer than clear nights
- in shady places because air cannot move there freely
- on windy nights because wind carries away the moist air

The atmosphere, heated by the absorption of Earth radiation, in turn radiates back to the Earth's surface increasing the Earth's surface temperature.

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https://eesc.columbia.edu/courses/ees/climate/lectures/radiation_ha ys/
https://books.google.co.in/books?id=CTROCwAAQBAJ&pg=PA121&lpg=PA121&dq=Why+are+dewdr ops+not+formed+on+a+clou dy+night?&source=bl&ots=1PGNYa2F1A&s
Why are dewdrops not formed on a cloudy night?
Consider the following statements:
1. The 44th Amendment to the Constitution of India introduced an Article placing the election of the Prime Minister beyond judicial review.
2. The Supreme Court of India struck down the 99th Amendment to the Constitution of India as being violative of the independence of judiciary.
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

- **The Parliament passed the Thirty-ninth amendment to the Constitution** which removed the authority of the Supreme Court to adjudicate petitions regarding elections of the President, Vice President, Prime Minister and Speaker of the Lok Sabha. Instead, a body constituted by Parliament would be vested with the power to resolve such election disputes.
- Amendments were also made to the Representation of Peoples Acts of 1951 and 1974 and placed in the Ninth Schedule along with the Election Laws Amendment Act, 1975 in order to save the Prime Minister from embarrassment if the apex court delivered an unfavourable verdict.
- The National Judicial Appointments Commission (NJAC) was a body tasked with appointing judges to the higher judiciary in India. Article 124 of the Constitution was amended through the 99th Amendment to reflect the change in the system of appointments from the collegium system, in which a body of judges would be consulted by the President to appoint the judges, with the judiciary’s opinion being...
The composition of the NJAC includes as the Chief Justice of India, the two senior most judges of the Supreme Court, the Law Minister and two “eminent persons”. A sub-committee was further constituted to appoint the “eminent persons”. The composition of the sub-committee includes the Prime Minister, the Chief Justice, and the Leader of the Opposition.

- The composition of the NJAC, therefore, presents a problem it allows excessive executive interference in the appointment of judges. More specifically, the term “eminent persons” has not been defined with clarity, leaving a lot to the discretion of the executive. Therefore, it was natural for the judiciary to fear the abuse of such discretion by the executive, resulting in political appointments to the Supreme Court and the High Courts.

Petitions were filed before the Supreme Court to strike down the 99th Amendment as being unconstitutional. The Court reasoned that the 99th Amendment was unconstitutional. In arriving at this conclusion, the Court evaluated the theory of separation of powers and
Consider the following statements:
1. The motion to impeach a Judge of the Supreme Court of Indian cannot be rejected by the Speaker of the Lok Sabha as per the Judges (Inquiry) Act, 1968.
2. The Constitution of India defines and gives details of what constitutes ‘incapacity and proved misbehaviour’ of the Judges of the Supreme Court of India.
3. The details of the process of impeachment of the Judges of the Supreme Court of India are given in the Judges (Inquiry) Act, 1968.
4. If the motion for the impeachment of a Judge is taken up for voting, the law requires the motion to be backed by each House of the Parliament and supported by a majority of total membership of that House and by not less than two-thirds of total members of that House present and voting.

Which of the statements given above is/are correct?
(a) 1 and 2
(b) 3 only
(c) 3 and 4 only
(d) 1, 3 and 4

A judge may be removed from office through a motion adopted by Parliament on grounds of ‘proven misbehaviour or incapacity’. While the Constitution does not use the word ‘impeachment’, it is colloquially used to refer to the proceedings under Article 124 (for the removal of a Supreme Court judge) and Article 218 (for the removal of a High Court judge).

The Judges Enquiry Act (1968) regulates the procedure relating to the removal of a judge of the Supreme Court by the process of impeachment.

Impeachment procedure:
- A removal motion signed by 100 members (in the case of Lok Sabha) or 50 members (in the case of Rajya Sabha) is to be given to the Speaker/Chairman.
- The Speaker/Chairman may admit the motion or refuse to admit it.
- If it is admitted, then the Speaker/Chairman is to constitute a three-member committee to

In April 2018, Rajya Sabha Chairman M. Venkaiah Naidu on Monday rejected the Opposition’s impeachment notice against Chief Justice of India (CJI) Dipak Misra.
The committee should consist of (a) the chief justice or a judge of the Supreme Court, (b) a chief justice of a high court, and (c) a distinguished jurist.

- If the committee finds the judge to be guilty of misbehaviour or suffering from an incapacity, the House can take up the consideration of the motion.
- After the motion is passed by each House of Parliament by a special majority, an address is presented to the president for removal of the judge.
- Finally, the president passes an order removing the judge.

| 87 | Polity & Governance | The Ninth Schedule was introduced in the Constitution of India during the prime ministership of (a) Jawaharlal Nehru, (b) Lal Bahadur Shastri, (c) Indira Gandhi, (d) Morarji Desai | A | • To ensure that agrarian reform legislation did not run into heavy weather, the legislature amended the Constitution in the year 1951 which inserted Ninth Schedule during the tenure of Prime Minister Pt. Jawahar Lal Nehru.  
• Article 31-B was inserted by the First Constitutional (Amendment) Act 1951 which states that without prejudiced to the generality | E | FA | Laxmikant: Indian Polity (Constitutional amendments)  
of the provisions contained in Article 31-A, none of the Acts and Regulations specified in the Ninth Schedule nor any of the provisions thereof shall be deemed to be void, or ever to have become void, on the ground that such Act, Regulation or provisions is inconsistent with, or takes away or abridges any of the rights conferred by, any provisions of this part, and notwithstanding any judgment, decree or order of any court or tribunal to the contrary, each of the said Acts and Regulations shall, subject to the power of any competent legislature to repeal or amend it, continue in force.

| 88 | Economics | Consider the following statements:  
1. Coal sector was nationalized by the Government of India under Indira Gandhi.  
2. Now, coal blocks are allocated on lottery basis.  
3. Till recently, India imported coal to meet the shortages of domestic supply, but now India is self-sufficient in coal product.  
Which of the statements given above is/are correct?  
(a) 1 only  
(b) 2 and 3 only  
(c) 3 only  
(d) 1, 2 and 3 |
| A | • Adequate capital investment to meet the burgeoning energy needs of the country was not forthcoming from the private coal mine owners.  
Unscientific mining practices adopted by some of them and poor working conditions of labour in some of the private coal mines became matters of concern for the Government. On account of these reasons, the Central Government took a decision to nationalise the private coal mines. The nationalisation was done in two phases, the first with the coking coal |
| FCA | https://www.thehindu.com/business/industry/why-has-coal-mining-been-opened-up/article22851689.ece | EN |
mines in 1971-72 and then with the non-coking coal mines in 1973.

- Indira Gandhi was the Prime Minister of the country from 1971-1973. **Statement 1 is correct.**
- **Statement 2 is not correct.** After the Supreme Court cancelled the coal block allocations in 2014.
- To manage and reallocate the cancelled blocks in a transparent and accountable manner, the Coal Mines (Special Provisions) Act, 2015 was enacted. Enabling provisions were made in the above said Act for ‘allocation of coal mines by way of auction and allotment for the sale of coal.’
- In a recent notification by the Government on 20th February, the government opened up commercial coal mining for the private sector on February 20, and approved the methodology for auction of coal mines / blocks for sale of coal.
- There will be an ‘ascending forward auction’ – a two-stage online auction comprising (i) technical bid and (ii) financial bid with initial and final price offers. The bid parameter will be the price offer in ₹/tonne which will be paid to the State
Consider the following statements:
2. The above-mentioned Act was amended five times.
3. The term ‘Office of Profit’ is well-defined in the Constitution of India. Which of the statements given above is/are correct?
   (a) 1 and 2 only
   (b) 3 only
   (c) 2 and 3 only
   (d) 1, 2 and 3

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- **Statement 3 is not correct**
  - India is still one of the largest importer of Coal. Domestic coal has been able to meet only 75% of our annual coal demand. The shortfall in local coal availability is met through imports of around 200 mt.

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In October 2018, EC dismisses plea against 27 AAP MLAs in office-of-profit case.
Under which Schedule of the Constitution of India can the transfer of tribal land to private parties for mining be declared null and void?
(a) Third Schedule  
(b) Fifth Schedule  
(c) Ninth Schedule  
(d) Twelfth Schedule

- The Indian Constitution provides autonomy to tribal areas in matters of governance under the Fifth and Sixth Schedules, which is further fortified by the Samatha v. State of Andhra Pradesh & Ors (1997) judgment where the Supreme Court declared that the transfer of tribal land to private parties for mining was null and void under the Fifth Schedule. The framework for protection of the rights of tribal and indigenous people is further strengthened by the Recognition of Forest Rights Act, 2006 which protects the individual and community rights of tribal people in forest areas and their right to free and prior informed consent in event of their displacement and resettlement.

Recently, Constitution (125th Amendment) Bill, 2019 was introduced in Rajya Sabha. The Bill amends provisions related to the Finance Commission and the Sixth Schedule of the Constitution to increase the financial and executive powers of the 10 Autonomous Councils in the Sixth Schedule areas.

- Girardinia diversifolia (Himalayan nettle), a fibre-yielding plant, has become an important livelihood option for people living in the remote mountainous villages of the Himalayas.
For the measurement/estimation of which of the following are satellite images/remote sensing data used?

1. Chlorophyll content in the vegetation of a specific location
2. Greenhouse gas emissions from rice paddies of a specific location
3. Land surface temperatures of a specific location

Select the correct answer using the code given below.
(a) 1 only
(b) 2 and 3 only
(c) 3 only
(d) 1, 2 and 3

With the development of remote sensing from space, satellite data offers the possibility for measuring **land surface temperature** over the entire globe with sufficiently high temporal resolution and with complete spatially averaged rather than point values.

- The global food supply is being monitored with satellite imagery and the Normalized Difference Vegetation Index (NDVI). Near-infrared radiation is being used to detect healthy vegetation in agriculture. Healthy vegetation reflects green light and absorbs red and blue light. The green light that our eyes see is chlorophyll created by plants during photosynthesis. **Chlorophyll will reflect more light in the green and near infrared spectrum compared to other wavelengths.** This is why near infrared radiation in combination with NDVI is one of the primary remote sensing applications in agriculture and the environment.

- Remote sensing from satellites can deliver information on **GHG soil emissions by estimating tropospherical, near-surface CO2 and CH4 concentrations**.
### 93 Environment

Consider the following states:
1. Chhattisgarh
2. Madhya Pradesh
3. Maharashtra
4. Odisha

With reference to the States mentioned above, in terms of percentage of forest cover to the total area of State, which one of the following is the correct ascending order?
(a) 2-3-1-4
(b) 2-3-4-1
(c) 3-2-4-1
(d) 3-2-1-4

| C | The percentage of forested area in 2017 by state as published by the Forest Survey of India in ascending order is:
- Maharashtra (16.47%),
- Madhya Pradesh (25.11%),
- Odisha (32.98%),
- Chhattisgarh (41.09%). |

### 94 Environment

Which of the following statements are correct about the deposits of ‘methane hydrate’?
1. Global warming might trigger the release of methane gas from these deposits.
2. Large deposits of ‘methane hydrate’ are found

| D | • **Statement 1 is correct:** Methane hydrate is a crystalline solid that consists of a methane molecule surrounded by a cage of interlocking water molecules (see image at the top of this page). Methane hydrate is an "ice" that only occurs naturally in subsurface | M | https://www.business-standard.com/article/economy-policy/india-might-hold-worlds-second-largest-gas-4661521.html | RR | **Asked in 2671, 2862.** With reference to Gas hydrates, consider the following statements:
1. They are naturally found under the sea bed and glaciers.
2. They are crystalline form of methane and water. |
in Arctic Tundra and under the seafloor.  
3. Methane in atmosphere oxidizes to carbon dioxide after decade or two.  
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  

- Deposits where temperature and pressure conditions are favorable for its formation. Owing to melting of ice, global warming might trigger the release of methane gas from these deposits.  
  - **Statement 2 is correct:** Four Earth environments have the temperature and pressure conditions suitable for the formation and stability of methane hydrate. These are:  
    1) sediment and sedimentary rock units below Arctic permafrost;  
    2) sedimentary deposits along continental margins;  
    3) deep-water sediments of inland lakes and seas; and,  
    4) under Antarctic ice.  
  - **Statement 3 is correct:** Methane is relatively short-lived in the atmosphere; a molecule of methane is oxidized to water and carbon dioxide after a decade or so, mainly by reaction with another trace gas, the hydroxyl radical OH-. Thus, unlike the case of carbon dioxide (which stays in the atmosphere longer than methane), a concerted effort to reduce methane emissions would have almost immediate results in terms of reduction of greenhouse effect.  

---  
3. Krishna-Godavari (KG) basin in India is the potential site for its extraction.  
Which of the statements given above is/are correct?  
(a) 2 only  
(b) 1 only  
(c) 1 and 3 only  
(d) 1, 2 and 3
### Environment

Consider the following:
1. Carbon monoxide
2. Methane
3. Ozone
4. Sulphur dioxide

Which of the above are released into atmosphere due to the burning of crop/biomass residue?
(a) 1 and 2 only
(b) 1, 2, 3 and 4 only
(c) 1 and 4 only
(d) 1, 2, 3 and 4

- Crop residues / biomass burning are cheap and easiest method to dispose the leftover crop residues (wheat, rice, sugarcane etc.) after harvesting, for land clearing and pest control. Burning of crop residues is a common approach to eliminate waste after harvesting all over the world. Burning of these residues emit gases like sulphur dioxide (SO2), oxides of nitrogen (NOx), carbon dioxide (CO2), carbon monoxide (CO), black carbon (BC), organic carbon (OC), methane (CH4), volatile organic compounds (VOC), non-methane hydrocarbons (NMHCs), ozone (O3), and aerosols etc which affect the global atmospheric chemistry and climate.

### Geography

Consider the following pairs:

- Adriatic Sea: Albania
- Black Sea: Croatia
- Caspian Sea: Kazakhstan
- Mediterranean Sea: Morocco
- Red Sea: Syria

Which of the pairs given above are correctly matched?
(a) 1, 2 and 4 only
(b) 1, 3 and 4 only
(c) 2 and 5 only
(d) 1, 2, 3, 4 and 5

- The Adriatic Sea is a body of water separating the Italian Peninsula from the Balkan peninsula. The countries with coasts on the Adriatic are Albania, Bosnia and Herzegovina, Croatia, Italy, Montenegro and Slovenia.
- Black Sea is a large inland sea situated at the southeastern extremity of Europe. It is bordered by Ukraine to the north, Russia to the northeast, Georgia to the east, Turkey to the south, and Bulgaria and Romania to the west.

- The Caspian Sea is bordered by which of the following countries?
  1. Russia
  2. Tajikistan
  3. Azerbaijan
  4. Iran
  5. Ukraine

Select the correct answer using the code given below.
(a) 1, 2, 3 and 5 only
(b) 1, 2 and 4 only
(c) 2, 3 and 5 only

Crop Residue/Biomass burning is a long pending issue for the want of relief from smog in northern India during winters.
• Caspian Sea is the world’s largest inland body of water, variously classed as the world’s largest lake or a full-fledged sea. It is an endorheic basin (a basin without outflows) located between Europe and Asia. It is bounded by Kazakhstan to the northeast, Russia to the northwest, Azerbaijan to the west, Iran to the south, and Turkmenistan to the southeast.
• Mediterranean Sea is an intercontinental sea that stretches from the Atlantic Ocean on the west to Asia on the east and separates Europe from Africa. The countries surrounding the Mediterranean in clockwise order are Spain, France, Monaco, Italy, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Albania, Greece, Turkey, Syria, Lebanon, Israel, Egypt, Libya, Tunisia, Algeria, and Morocco.
• Red Sea is a narrow strip of water extending southeastward from Suez, Egypt, for about 1,200 miles (1,930 km) to the Bab el-Mandeb Strait, which connects with the Gulf of Aden and thence with the Arabian Sea. The six countries bordering the Red Sea proper

The Black Sea is bordered by which of the following countries?
1. Greece
2. Ukraine
3. Georgia
4. Romania
Select the correct answer using the code given below.
(a) 1, 2 and 3 only
(b) 1, 2 and 4 only
(c) 2, 3 and 4 only
(d) 1, 3 and 4 only
### Economics

**Question:** Among the following which one is the largest exporter of rice in the world in the last five years?

(a) China  
(b) India  
(c) Myanmar  
(d) Vietnam

**Answer:** B

- India has been the world's top rice exporter since the beginning of this decade (2011-12).
- India’s share in world exports of rice in recent years (2014-18) has stayed at 25-26 per cent, Thailand’s has fluctuated between 22 and 25 per cent, and Vietnam’s between 13 and 16 per cent.

### Geography

**Question:** Consider the following pairs: Glacier River

1. Bandarpunch : Yamuna  
2. Bara Shigri : Chenab  
3. Milam : Mandakini  
4. Siachen : Nubra  
5. Zemu Manas

Which of the pairs given above are correctly matched?

(a) 1, 2 and 4  
(b) 1, 3 and 4  
(c) 2 and 5  
(d) 3 and 5

**Answer:** A

- Bandarpunch is located at the western edge of the High Himalayan Range. It is part of the Sankari Range and lies within the Govind Pashu Vihar National Park and Sanctuary. It is a major watershed for the headwaters of the Yamuna River, whose source lies above Yamnotri, on the west end of the massif below White Peak.
- Bara-Sigri glacier which is the second longest glacier in Himalaya after Gangotri, is located in the Chandra Valley of Lahaul. The glacier feeds the Chenab River.
- Milam Glacier is a major glacier of the Kumaon Himalaya. It is a part of the Pithoragarh district of Uttarakhand, India, about 15 kilometres (9 mi) northeast of Nanda Devi. Mandakini is a...
tributary of the Alaknanda River which originates from the Chorabari Glacier near Kedarnath in Uttarakhand, India.

- Siachen Glacier is located in the eastern Karakoram range in the Himalayas. The glacier’s melting waters are the main source of the Nubra River in the Indian region of Ladakh, which drains into the Shyok River.
- Zemu Glacier is the largest glacier in the Eastern Himalaya. It is located at the base of Kangchenjunga in the Himalayan region of Sikkim, India. Manas River is a transboundary river in the Himalayan foothills between southern Bhutan and India.

Environment

In India, the use of carbofuran, methyl parathion, phorate and triazophos is viewed with apprehension. These chemicals are used as
(a) pesticides in agriculture
(b) preservatives in processed foods
(c) fruit-ripening agents
(d) moisturizing agents in cosmetics

A

Carbofuran, phorate, methyl parathion, monocrotophos, methyl demethon, prophenophos and triazophos are pesticides used in agriculture.

M

https://indianexpress.com/article/explained/fall-armyworm-an-insect-that-can-travel-100-km-per-night-the-threat-it-poses-for-farmers-5710850/
https://www.downtoearth.org.in/news/pesticide-ban-lands-kerala-

EN

PT 365 Environment Page 19

Last year, as reports of Fall armyworm (FAW) infestations started pouring in from across the country, the Central Insecticide Board and Registration Committee (CIBRC) had allowed spraying of select insecticides/formulations — Carbofuran, Phorate, Thiamethoxam (12.6%) plus Lambda-cyhalothrin (9.5%), and Chlorantraniliprole.
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| **Consider the following statements:**
| 1. Under Ramsar Convention, it is mandatory on the part of the Government of India to protect and conserve all the wetlands in the territory of India.
| 2. The Wetlands (Conservation and Management) Rules, 2010 were framed by the Government of India based on the recommendation of Ramsar Convention.
| 3. The Wetlands (Conservation and Management) Rules, 2010 also encompass the drainage area or catchment regions of the wetlands as determined by the authority.
| Which of the statements given above is/are correct?
| (a) 1 and 2 only
| (b) 2 and 3 only
| (c) 3 only
| (d) 1, 2 and 3
| **B**
| **• Statement 1 is not correct:**
| Article 4 of the Ramsar Convention states that "Each Contracting Party shall promote the conservation of wetlands and waterfowl by establishing nature reserves on wetlands, whether they are included in the List or not, and provide adequately for their wandering." It is not mandatory on the part of the Government of India to protect and conserve all the wetlands in the territory of India.
| **• Statement 2 is correct:**
| Article 3 of the Ramsar Convention states that "The Contracting Parties shall formulate and implement their planning so as to promote the conservation of the wetlands included in the List, and as far as possible the wise use of wetlands in their territory."
| **• Statement 3 is correct:**
| As per Wetlands (Conservation and Management) Rules, 2010, a "wetland" means an area or of marsh, fen, peatland or water; natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, including areas of marine
| **D**
| **U**
| **https://www.ramsar.org/sites/default/files/documents/library/scan_certified_e.pdf**
| **RR**
| **Asked in 2675. Detailed information on Ramsar in explanation.**
| Which one of the following statements best describes the “wise use of wetland” a key concept of Ramsar Convention?
| (a) Put complete restriction on the cultivating genetically modified agricultural crops around the sites.
| (b) Separate the human settlement around the all the sites by creating the wide zone around it.
| (c) Maintenance of ecological character of all the sites through ecosystem approach for sustainable use of wetlands and their resources.
| (d) None of the above
water, the depth of which at low tide does not exceed six metres and includes all inland waters such as lakes, reservoir, tanks, backwaters, lagoon, creeks, estuaries and manmade wetland and the zone of direct influence on wetlands that is to say the drainage area or catchment region of the wetlands as determined by the authority.
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Number of questions by difficulty
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Number of questions by nature:

- FCA – Fundamental and Current Affair: 19 questions (22.0%)
- F – Fundamental: 20 questions (19.0%)
- CA – Current Affair: 14 questions (13.0%)
- CAA – Current Affair Applied: 12 questions (14.0%)
- FA – Fundamental Applied: 13 questions (20.0%)
- U - Unconventional: 22 questions (12.0%)
### SOURCE TYPE

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**Number of question by source type**

- **EN**: 28 questions (28.0%)
- **RR**: 32 questions (32.0%)
- **RM**: 1 question (1.0%)
- **EM**: 39 questions (39.0%)

Grand Total: 100 questions
SECTIONWISE DIFFICULTY

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