Dear Friends,

UPSC conducted the Prelims for CSE 2022 on 5th June 2022. The questions can be said to be of moderate to difficult level. Hence, expectation is that UPSC Prelims 2022 Expected Cutoff would remain low in the range of 92/-.

Many questions were of the type ‘either you know or you don’t’. Hence, this was a kind of paper where it was more important for a candidate to judge which question to leave rather than which one to attempt. UPSC asked pair-based questions in a new way which made the use of elimination technique difficult.

- The questions from polity were easy to moderate. If concepts are clear, one would not have found difficulty in solving them.
- The questions from the environment section were moderate to difficult. This time more direct questions were asked.
- Questions from Science and Technology were difficult. New and emerging technologies were stressed upon.
- Economy questions were difficult as compared to the last year. Most of these were conceptual in nature and needed a thorough understanding of the topic.
- The questions from history were moderate to difficult. The medieval part got more focus.
- The questions from IR/IO were difficult. They had linkage to current affairs.
- Many questions this year can be traced to current affairs. Topics which have been frequently been in news have been asked and these can be sourced from newspapers like Hindu, Times of India, Indian Express etc.

After taking the prelims examination in the most taxing circumstances, aspirants now must be unsettled by the darkness of uncertainty around the score that would sail them through to the next stage. But remember prelims is just the qualifying phase of CSE. The real battle begins now. Anyone scoring 80+ should take two days’ rest, refresh their mind and get into Mains mode.

Aspirants who failed to attempt the paper as per their expectations should remain calm and composed and take a few days break. Thereafter, do a diligent SWOT analysis of the syllabus, preparation, time schedule etc and think and plan accordingly with a new strategy. Do not try to imitate or blindly copy others and neither be influenced in a wrong way, rather get inspired. Do not settle for less and do not be afraid of failures.

The strategy should be:
Read standard books, grasp basic concepts, focus on fundamentals of current affairs, read the newspaper thoroughly, be aware and observant and focus on quality rather than quantity.
Subject-wise analysis

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### Yearly Analysis

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#### Level

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Nature

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Source Type

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<td>No.</td>
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| 1   | Rapid Financing Instrument” and “Rapid Credit Facility” are related to the provisions of lending by which one of the following?  
(a) Asian Development Bank  
(b) International Monetary Fund  
(c) United Nations Environment Programme Finance Initiative  
(d) World Bank                                                                   | IR/IO   | B   | Easy  | The Rapid Financing Instrument (RFI) provides rapid financial assistance, which is available to all member countries facing an urgent balance of payments need. The RFI was created as part of a broader reform to make the IMF’s financial support more flexible to address the diverse needs of member countries. The RFI replaced the IMF’s previous emergency assistance policy and can be used in a wide range of circumstances.  
The Rapid Credit Facility (RCF) provides rapid concessional financial assistance to low-income countries (LICs) facing an urgent balance of payments (BoP) need with no ex post conditionality where a full-fledged economic program is neither necessary nor feasible. | Apti Plus/Iasgyan Source                                                                 |
| 2   | With reference to the Indian economy, consider the following statements:  
1. An increase in Nominal Effective Exchange Rate (NEER) indicates the appreciation of rupee.  
2. An increase in the Real Effective Exchange Rate (REER) indicates an improvement in trade competitiveness.  
3. An increasing trend in domestic inflation relative to inflation in other countries is likely to cause an increasing divergence between NEER and REER. | Economy | C   | Medium| "NEER is a measure of value of a currency against a weighted average of several foreign currency. An increase in NEER indicates appreciation of rupee.  
An increase in REER implies that exports become more expensive and imports become cheaper; therefore, an increase indicates a loss in trade competitiveness.  
An increasing trend in domestic inflation relative to inflation in other countries is likely to cause an increasing divergence between NEER and REER." | Prelims Test Series 2022 Sectional Test 11                                              |
<table>
<thead>
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<th>Subject</th>
<th>Difficulty</th>
<th>Description</th>
<th>Source</th>
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<td>3</td>
<td>Economy</td>
<td>Medium</td>
<td>With reference to the Indian economy, consider the following statements: 1. If the inflation is too high, Reserve Bank of India (RBI) is likely to buy government securities. 2. If the rupee is rapidly depreciating, RBI is likely to sell dollars in the market. 3. If interest rates in the USA or European Union were to fall, that is likely to induce RBI to buy dollars. 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</td>
<td>In the economy if the inflation is high, RBI tries to reduce the liquidity from the market, by selling Government securities to the public via open market operation. Rupee depreciation means, fall in value of rupee with respect to dollar. In free floating exchange rate regime, depreciation takes place when the demand for dollar is more than the supply.</td>
</tr>
</tbody>
</table>
3. A commercial bank lending money to a trading company
4. A corporate body issuing Rupee Denominated Bonds overseas
Select the correct answer using the code given below:
(a) 1 and 2 only
(b) 2, 3 and 4 only
(c) 1, 3 and 4 only
(d) 1, 2, 3 and 4

8 Which one of the following situations best reflects “Indirect Transfers” often talked about in media recently with reference to India?
(a) An Indian company investing in a foreign enterprise and paying taxes to the foreign country on the profits arising out of its investment
(b) A foreign company investing in India and paying taxes to the country of its base on the profits arising out of its investment
(c) An Indian company purchases tangible assets in a foreign country and sells such assets after their value increases and transfers the proceeds to India
(d) A foreign company transfers shares and such shares derive their substantial value from assets located in India

9 With reference to the expenditure made by an organization or a company, which of the following statements is/are correct?
1. Acquiring new technology is capital expenditure.
2. Debt financing is considered capital expenditure, while equity financing is considered revenue expenditure.
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

10 With reference to the Indian economy, consider the following statements:
1. A share of the household financial savings goes towards government borrowings.
2. Dated securities issued at market-related rates in auctions form a large component of internal debt.
Which of the above statements is/are correct?
(a) 1 only
(b) 2 only
(c) Both 1 and 2
(d) Neither 1 nor 2

11 Consider the following statements:
1. Pursuant to the report of H.N. Sanyal Committee, the Contempt of Courts Act, 1971 was passed.
2. The Constitution of India empowers the Supreme Court and the High Courts to punish for contempt of themselves.
3. The Constitution of India defines Civil Contempt and Criminal Contempt.
4. In India, the Parliament is vested with the powers to make laws on Contempt of Court.
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
12. With reference to India, consider the following statements:
1. Government law officers and legal firms are recognized as advocates, but corporate lawyers and patent attorneys are excluded from recognition as advocates.
2. Bar Councils have the power to lay down the rules relating to legal education and recognition of law colleges.
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

13. Consider the following statements:
1. A bill amending the Constitution requires a prior recommendation of the President of India.
2. When a Constitution Amendment Bill is presented to the President of India, it is obligatory for the President of India to give his/her assent.
3. A Constitution Amendment Bill must be passed by both the Lok Sabha and Rajya Sabha by a special majority and there is no provision for joint sitting.
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
### 14
Consider the following statements:
1. The Constitution of India classifies the ministers into four ranks viz. Cabinet Minister, Minister of State with Independent Charge, Minister of State and Deputy Minister.
2. The total number of ministers in the Union Government, including the Prime Minister, shall not exceed 15 percent of the total number of members in the Lok Sabha.
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

**Polity**

**B**

**Easy**

The Indian constitution does not define any categorisation of ministers. The total number of ministers including the prime minister should not exceed 15% of the total membership of Lok Sabha.

https://www.constitutionofindia.net/constitution_of_india/the_union/articles/Article_75

M. Laxmikant

APTIPLUS CLASSROOM STUDY MATERIAL ON POLITY

### 15
Which of the following is/are the exclusive power(s) of Lok Sabha?
1. To ratify the declaration of Emergency
2. To pass a motion of no-confidence against the Council of Ministers
3. To impeach the President of India

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

**Polity**

**B**

**Medium**

Statement 1 is incorrect: If the President is satisfied that a grave emergency exists whereby the security of India or of any part of the territory thereof is threatened, whether by war or external aggression or armed rebellion, he may, by Proclamation, made a declaration to that effect in respect of the whole of India or of such part of the territory.

Statement 2 is correct: According to Article 75 of the Indian constitution the council of ministers shall be collectively responsible to the Lok Sabha. It means that the ministry stays in office so long as it enjoys the confidence of the majority of the members of the Lok Sabha.

Statement 3 is incorrect: When a President is to be impeached for violation of the Constitution, the charge shall be preferred by either House of Parliament.

M. Laxmikant

APTIPLUS CLASSROOM STUDY MATERIAL ON POLITY

### 16
With reference to anti-defection law in India, consider the following statements:
1. The law specifies that a nominated legislator cannot join any political party within six months of being appointed to the House.
2. The law does not provide any time-frame within which the presiding officer has to decide a defection case.
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

**Polity**

**B**

**Easy**

Statement 1 is incorrect: A nominated member of a House becomes disqualified for being a member of the House if he joins any political party after the expiry of six months from the date on which he takes his seat in the House.

Statement 2 is correct: The law does not specify a time-period for the Presiding Officer to decide on a disqualification plea.

M. Laxmikant

PRELIMS EXPRESS 2022

17. Consider the following statements:
1. Attorney General of India and Solicitor General of India are the only officers of the Government who are allowed to participate in the meetings of the Parliament of India.
2. According to the Constitution of India, the Attorney General of India submits his resignation when the Government which appointed him resigns.
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>
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<tr>
<th>Polity</th>
<th>D</th>
<th>Medium</th>
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<tr>
<td>Statement 1 and 2 is incorrect. As per the Article 88, Every minister and the Attorney-General of India shall have the right to speak in, and otherwise to take part in the proceedings of, either House, any joint sitting of the Houses and any committee of Parliament of which he may be named a member, but shall not by virtue of this article be entitled to vote. Solicitor General do not participate in the meetings of Parliament. The Attorney General of India may quit his office by submitting his resignation to the president of India. Conventionally, he resigns when the government (council of ministers) resigns or is replaced, as he is appointed on its advice.</td>
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<td>M. Laxmikant</td>
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18. With reference to the writs issued by the Courts in India, consider the following statements:
1. Mandamus will not lie against a private organization unless it is entrusted with a public duty.
2. Mandamus will not lie against a Company even though it may be a Government Company.
3. Any public minded person can be a petitioner to move the Court to obtain the writ of Quo Warranto.
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  

<table>
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<tr>
<th>Polity</th>
<th>C</th>
<th>Medium</th>
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<tr>
<td>Statement 1 is Incorrect But 2 is Correct. Mandamus means ‘we command’. It is a command issued by the court to a public official asking him to perform his official duties that he has failed or refused to perform. It can also be issued against any public body, a corporation, an inferior court, a tribunal or government for the same purpose. The writ of mandamus cannot be issued against a private individual or body. Statement 3 is correct Quo-Warranto means ‘by what authority or warrant’. It is issued by the court to enquire into the legality of claim of a person to a public office. Hence, it prevents illegal usurpation of public office by a person. The writ can be issued only in case of a substantive public office of a permanent character created by a statute or by the Constitution. It cannot be issued in cases of ministerial office or private office. Unlike the other four writs, this can be sought by any interested person and not necessarily by the aggrieved person.</td>
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<td>M. Laxmikant</td>
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19. With reference to Ayushman Bharat Digital Mission, consider the following statements:
1. Private and public hospitals must adopt it.
2. As it aims to achieve universal health coverage, every citizen of India should be part of it ultimately.

<table>
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<tr>
<th>CA</th>
<th>B</th>
<th>Easy</th>
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<tr>
<td>The Ayushman Bharat Digital Mission (ABDM) has been launched by the Government of India for promoting digitization of healthcare and creating an open interoperable digital health ecosystem for the country. It aims to do so by prescribing</td>
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PRELIMS TEST SERIES 2022
SECTIONAL TEST 3 ON POLITY
PRELIMS EXPRESS 2022

PRELIMS EXPRESS
https://www.iasgyan.in/daily-current-affairs/explained-how-has-the-supreme-court-interpreted-article-32-over-the-years
PRELIMS TEST SERIES 2022
CURRENT AFFAIRS TEST
### 20

**With reference to Deputy Speaker of Lok Sabha, consider the following statements:**

1. As per the Rules of Procedure and Conduct of Business in Lok Sabha, the election of Deby Speaker shall be held on such date as the Speaker may fix.
2. There is a mandatory provision that the election of a candidate as Deputy Speaker of Lok Sabha shall be from either the principal opposition party or the ruling party.
3. The Deputy Speaker has the same power as of the Speaker when presiding over the sitting of the House and no appeal lies against his rulings.
4. The well established parliamentary practice regarding the appointment of Deputy Speaker is that the motion is moved by the Speaker and duly seconded by the Prime Minister.

Which of the statements given above are correct?

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

**Polity**  
**A Medium**  
**M. Laxmikant**  

http://lokshabh.nic.in/rules/rules.pdf


### 21

**Among the following crops, which one is the most important anthropogenic source of both methane and nitrous oxide?**

(a) Cotton  
(b) Rice  
(c) Sugarcane  
(d) Wheat

**Geography**  
**B Easy**  

Methane and nitrous oxide emissions from rice farms could have the same long-term warming impact as about 600 coal plants. They found that nitrous oxide emissions from rice can contribute up to 99% of the total climate impact of rice cultivation at a variety of intermittently flooded farms. The researchers found an inverse correlation between methane and nitrous oxide emissions.

https://www.thehindu.com/sci-tech/greenhouse-gas-emissions-from-indian-paddy-fields-very-high-study/article24925357.ece

https://www.iasgyan.in/daily-current-affairs/study-points-to-nitrous-oxide-emissions-derailing-paris-climate-acCORD-
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<td>System of Rice Intensification of cultivation, in which alternate wetting and drying of rice fields is practised, results in: 1. Reduced seed requirement 2. Reduced methane production 3. Reduced electricity consumption 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</td>
<td>Geography</td>
<td>D</td>
<td>Medium</td>
</tr>
<tr>
<td>23</td>
<td>Which one of the following lakes of West Africa has become dry and turned into a desert? (a) Lake Victoria (b) Lake Faguibine (c) Lake Oguta (d) Lake Volta</td>
<td>Geography</td>
<td>B</td>
<td>Difficult</td>
</tr>
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<td>24</td>
<td>Gandikota canyon of South India was created by which one of the following rivers? (a) Cauvery (b) Manjira</td>
<td>Geography</td>
<td>C</td>
<td>Difficult</td>
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| 25 | Consider the following pairs Peak Mountains  
|     | Namcha Barwa - Garhwal Himalaya  
|     | Nanda Devi – Kumaon Himalaya  
|     | Nokrek – Sikkim Himalaya  
|     | Which of the pairs given above is/are correctly matched?  
|     | (a) 1 and 2  
|     | (b) 2 only  
|     | (c) 1 and 3  
|     | (d) 3 only  
|     | Geography | Easy | Namcha Barwa stands inside the Great Bend of the Yarlung Tsangpo River as the river enters its notable gorge across the Himalaya, emerging as the Siang and becoming the Brahmaputra in Arunachal Pradesh. Garhwal Himalayas are mountain ranges located in Uttarakhand. Kumaun Himalayas lies largely within Uttarakhand. Nanda Devi is the highest peak. The Nokrek Biosphere Reserve is located in the northeast of India in Meghalaya Plateau.  
|     | NCERT GEOGRAPHY CLASS 11 | [Link](https://www.aptiplus.in/product/track-atlas-special-edition-for-upsc-cse) |

| 26 | The term "Levant" often heard in the news roughly corresponds to which of the following regions?  
|     | (a) Region along the eastern Mediterranean shores  
|     | (b) Region along North African shores stretching from Egypt to Morocco  
|     | (c) Region along Persian Gulf and Horn of Africa  
|     | (d) The entire coastal areas of Mediterranean Sea  
|     | CA | Difficult | Levant, the region along the eastern Mediterranean shores, roughly corresponding to modern-day Israel, Jordan, Lebanon, Syria, and certain adjacent areas.  
|     | [Link](https://moderndiplomacy.eu/2022/03/chinese-geo-strategic-expansion-in-the-levant-a-case-study-of-lebanon/)  

| 27 | Consider the following countries:  
|     | 1. Azerbaijan  
|     | 2. Kyrgyzstan  
|     | 3. Tajikistan  
|     | 4. Turkmenistan  
|     | 5. Uzbekistan  
|     | Which of the above have borders with Afghanistan?  
|     | (a) 1, 2 and 5 only  
|     | (b) 1, 2, 3 and 4 only  
|     | (c) 3, 4 and 5 only  
|     | (d) 1, 2, 3, 4 and 5  
|     | Geography | Easy | Afghanistan is completely landlocked country. It is surrounded by Pakistan, Iran, Turkmenistan, Uzbekistan, and Tajikistan. It also has a short border with Xinjiang, China.  
|     | [Link](https://www.aptiplus.in/product/track-atlas-special-edition-for-upsc-cse) |

| 28 | With reference to India, consider the following statements:  
|     | 1. Monazite is a source of rare earths.  
|     | Geography | Medium | Monazite is a mineral mainly containing rare earths and thorium—a prescribed substance to be handled by the Department of Atomic Energy.  
|     | [Link](https://indianexpress.com/article/india/sand-minerals-mining-modi-govt-private/)  
|     | Prelims test series 2022 sectional test on | [Link](https://aptiplus.in/product/track-atlas-special-edition-for-upsc-cse) |
3. Monazite occurs naturally in the entire Indian coastal sands in India.
4. In India, Government bodies only can process or export monazite.
Which of the statements given above are correct?
(a) 1, 2 and 3 only
(b) 1, 2 and 4 only
(c) 3 and 4 only
(d) 1, 2, 3 and 4

In the northern hemisphere, the longest day of the year normally occurs in the:
(a) First half of the month of June
(b) Second half of the month of June
(c) First half of the month of July
(d) Second half of the month of July

Consider the following pairs:
Wetland / Lake Location
1. Hokera Wetland – Punjab
2. Renuka Wetland – Himachal Pradesh
3. Rudrasagar Lake – Tripura
4. Sasthamkotta Lake – Tamil Nadu
How many pairs given above are correctly matched?
(a) Only one pair
(b) Only two pairs
(c) Only three pairs
(d) All four pairs

Consider the following:
1. Aarogya Setu
An open source platform is any platform that allows access to its source code to any other users
2. CoWIN
3. DigiLocker
4. DIKSHA

Which of the above are built on top of open-source digital platforms?
(a) 1 and 2 only
(b) 2, 3 and 4 only
(c) 1, 3 and 4 only
(d) 1, 2, 3 and 4

CoWIN, which is owned by the Ministry of Health and Family Welfare, was developed using open source software. This type of software allows users to modify the source code and distribute it.

With reference to Web 3.0, consider the following statements:
1. Web 3.0 technology enables people to control their own data.
2. In Web 3.0 world, there can be blockchain-based social networks.
3. Web 3.0 is operated by users collectively rather than a corporation.

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

Web 3.0 is the next version of the internet, where services will run on blockchain. It will be permissionless and democratic. People will control their own data and will be able to move around from social media to email to shopping using a single personalised account. All data will be interconnected in a decentralised way, unlike the current generation of the internet (Web 2.0), where data is mostly stored in centralised repositories.

With reference to "Software as a Service (SaaS)", consider the following statements:
1. SaaS buyers can customise the user interface and can change data fields.
2. SaaS users can access their data through their mobile devices.
3. Outlook, Hotmail and Yahoo! Mail are forms of SaaS.

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

Software as a service (SaaS) allows users to connect to and use cloud-based apps over the Internet. It provides a complete software solution which you purchase on a pay-as-you-go basis from a cloud service provider. You rent the use of an app for your organisation and your users connect to it over the Internet, usually with a web browser. It allows access to app data from anywhere. With data stored in the cloud, users can access their information from any Internet-connected computer or mobile device. App data is stored in the cloud, no data is lost if a user’s computer or device fails. Hotmail, Yahoo! Mail, Gmail uses a form of SaaS, you log into your account over the Internet, often from a web browser. You can access your email and stored messages from a web browser on any computer or Internet-connected device.
Which one of the following statements best reflects the idea behind the “Fractional Orbital Bombardment System” often talked about in media?

(a) A hypersonic missile is launched into space to counter the asteroid approaching the Earth and explode it in space.
(b) A spacecraft lands on another planet after making several orbital motions.
(c) A missile is put into a stable orbit around the Earth and deorbits over a target on the Earth.
(d) A spacecraft moves along a comet with the same speed and places a probe on its surface.

China’s Fractional Orbital Bombardment System
A Fractional Orbital Bombardment System (FOBS) is a warhead delivery system that uses a low earth orbit towards its target destination. Just before reaching the target, it de-orbits through a retrograde engine burn.

Which one of the following is the context in which the term “qubit” is mentioned?

(a) Cloud Services
(b) Quantum Computing
(c) Visible Light Communication Technologies
(d) Wireless Communication Technologies

Ordinary computer chips use bits. These are like tiny switches that can either be in the off position — represented by a zero — or in the on position — represented by a one.
Quantum computers calculate using qubits, computing units that can be on, off or any value between, instead of the bits in traditional computers that are either on or off, one or zero. The qubit’s ability to live in the in-between state — called superposition — adds a powerful capability to the computing equation, making quantum computers superior for some kinds of math.

Consider the following communication technologies:
1. Closed-circuit Television
2. Radio Frequency Identification
3. Wireless Local Area Network
Which of the above are considered Short-Range devices/technologies?

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

Short Range Devices (SRD) are radio devices that offer a low risk of interference with other radio services, usually because their transmitted power, and hence their range, is low.

Short Range Device include:
Access control (including door and gate openers)
Alarms and movement detectors
Closed-circuit television (CCTV)
Cordless audio devices, including wireless microphones
Industrial control
Local Area Networks
Medical implants
Metering devices
Remote control
Radio frequency identification (RFID)
Road Transport Telematics
Telemetry.

Consider the following statements:
1. Biofilms can form on medical implants within human tissues.
2. Biofilms can form on food and food processing surfaces.
3. Biofilms can exhibit antibiotic resistance.
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

Short Range Devices (SRD) are radio devices that offer a low risk of interference with other radio services, usually because their transmitted power, and hence their range, is low.

Short Range Device include:
Access control (including door and gate openers)
Alarms and movement detectors
Closed-circuit television (CCTV)
Cordless audio devices, including wireless microphones
Industrial control
Local Area Networks
Medical implants
Metering devices
Remote control
Radio frequency identification (RFID)
Road Transport Telematics
Telemetry.
### Consider the following statements in respect of probiotics:
1. Probiotics are made of both bacteria and yeast.
2. The organisms in probiotics are found in foods we ingest but they do not "naturally occur in our gut.
3. Probiotics help in the digestion of milk sugars.
Which of the statements given above is/are correct?
(a) 1 only
(b) 2 only
(c) 1 and 3
(d) 2 and 3

### In the context of vaccines manufactured to prevent COVID-19 pandemic, consider the following statements:
1. The Serum Institute of India produced COVID-19 vaccine named Covishield using mRNA platform.
2. Sputnik V vaccine is manufactured using vector based platform.
3. COVAXIN is an inactivated pathogen based vaccine.
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

### If a major solar storm (solar-flare) reaches the Earth, which of the following are the possible effects on the Earth?
1. GPS and navigation systems could fail.
2. Tsunamis could occur at equatorial regions.
3. Power grids could be damaged.
4. Intense auroras could occur over much of the Earth.
5. Forest fires could take place over much of the planet.
6. Orbits of the satellites could be disturbed.
7. Shortwave radio communication of the aircraft flying over polar regions could be interrupted.

Select the correct answer using the code given below:

(a) 1, 2, 4 and 5 only
(b) 2, 3, 5, 6 and 7 only
(c) 1, 3, 4, 6 and 7 only
(d) 1, 2, 3, 4, 5, 6 and 7.

41. “Climate Action Tracker” which monitors the emission reduction pledges of different countries is a:
   a) Database created by coalition of research organisations
   b) Wing of “International Panel of Climate Change”
   c) committee under “United Nations Framework Convention on Climate Change”
   d) Agency promoted and financed by United Nations Environment Programme and World Bank

<table>
<thead>
<tr>
<th>Environment</th>
<th>CA</th>
<th>Medium</th>
<th>CA A Medium</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA A Medium</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

42. Consider the following statements:
   1. “The Climate Group” is an international non-profit organization that drives climate action by building large networks and runs them.
   2. The International Energy Agency in partnership with the Climate Group launched a global initiative “EP100”.
   3. EP100 brings” together leading companies committed to driving innovation in energy efficiency and increasing competitiveness while delivering on emission reduction goals.
   4. Some Indian companies are members of EP100.
   5. The International Energy Agency is the Secretariat to the "Under2 Coalition".
   Which of the statements given above are Correct ?
   a) 1, 2, 4 and 5
   b) 1, 3 and 4 only
   c) 2, 3 and 5 only
   d) 1, 2, 3, 4 and 5

<table>
<thead>
<tr>
<th>Environment</th>
<th>B</th>
<th>Difficult</th>
<th>Climate Group is the Secretariat to the Under2 Coalition and works with governments to accelerate climate action.</th>
</tr>
</thead>
<tbody>
<tr>
<td>B Difficult</td>
<td></td>
<td></td>
<td><a href="https://www.theclimatetroup.org/ep100">https://www.theclimatetroup.org/ep100</a></td>
</tr>
</tbody>
</table>

43. “If rainforests and tropical forests are the lungs of the Earth, then surely, ‘wetlands function as its kidneys.” Which one of the following functions of wetlands best reflects the above statement ?
   a) The water cycle in wetlands involves surface runoff, subsoil percolation, and evaporation.
   b) Algae form the nutrient base upon which fish, crustaceans, molluscs, birds, reptiles and mammals thrive.
   c) Wetlands play a vital role in maintaining sedimentation balance and soil stabilization.
   d) Aquatic plants absorb heavy metals and excess nutrients.

<table>
<thead>
<tr>
<th>Environment</th>
<th>D</th>
<th>Easy</th>
<th>OPTION D IS CORRECT: Around the world, wetlands are still disappearing three times faster than forests, erasing entire ecosystems. While tropical rainforests are often called the lungs of the Earth, wetlands are described as the kidneys. They can absorb large quantities of water, filtering pollutants and helping to prevent floods. They have also become key allies in the fight against climate change, as they can capture CO2 from the atmosphere.</th>
</tr>
</thead>
<tbody>
<tr>
<td>D Easy</td>
<td></td>
<td></td>
<td><a href="https://cfpub.epa.gov/si/si_public_record_report.cfm?Lab=NRMRL&amp;dirEntryId=264191#:~:text=Natural%20wetlands%20have%20water%20that%20flows%20through%20them">https://cfpub.epa.gov/si/si_public_record_report.cfm?Lab=NRMRL&amp;dirEntryId=264191#:~:text=Natural%20wetlands%20have%20water%20that%20flows%20through%20them</a>.</td>
</tr>
</tbody>
</table>

44. In the context of WHO Air Quality Guidelines, consider the following statements:
   Statement 1 is correct : WHO Air quality guideline

<table>
<thead>
<tr>
<th>Environment</th>
<th>CA</th>
<th>Medium</th>
<th>Statement 1 is correct : WHO Air quality guideline</th>
</tr>
</thead>
</table>
| CA B Medium |    |        | https://www.who.int/news/i https://www.ias
1. The 24-hour mean of PM2.5 should not exceed, 15 µg/m³ and annual mean of PM2.5 should not exceed 5µg/m³.
2. In a year, the highest levels of ozone pollution occur during the periods of inclement weather.
3. PM10 can penetrate the lung barrier and enter the bloodstream.
4. Excessive ozone in the air can trigger asthma.

Which of the statements given above are correct?

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

45 With reference to “Gucchi” sometimes mentioned in the news, consider the following statements:

1. It is a fungus.
2. It grows in some Himalayan forest areas.
3. It is commercially cultivated in the Himalayan foothills of north-eastern India.

Which of the statements given above is/are correct?

a) 1 only
b) 3 only
c) 1 and 2

d) 2 and 3

46 With reference to polyethylene terephthalate, the use of which is so widespread in our daily lives, consider the following statements:

1. Its fibres can be blended with wool and cotton fibres to reinforce their properties.
2. Containers made of it can be reused for storing any beverage.
3. Bottles made of it can be recycled into other products.
4. Articles made of it can be easily disposed of by incineration without causing greenhouse gas emissions.

Which of the statements given above are correct?

a) 1 and 3
b) 2 and 4
c) 1 and 4
d) 2 and 3

47 Which of the following is not a bird?

a) Golden Mahseer
b) Indian Nightjar
c) Spoonbill
d) White Ibis

Which of the following is not a bird?

c) 1 and 4
d) 2 and 3
<table>
<thead>
<tr>
<th>Question</th>
<th>Category</th>
<th>Type</th>
<th>Difficulty</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>48</td>
<td>Geography</td>
<td>Medium</td>
<td>Option A is correct. Nitrogen-fixing capable plants belong to the Fabaceae family. Some of such plants include Alfalfa, Chickpea, Clover etc.</td>
<td></td>
</tr>
<tr>
<td>49</td>
<td>Environment</td>
<td>Medium</td>
<td>OPTION A IS CORRECT: Biorock is a cement-like engineering material formed when a small electric current is passed between underwater metal electrodes placed in seawater causing dissolved minerals to accrete onto the cathode to form a thick layer of limestone.</td>
<td></td>
</tr>
<tr>
<td>50</td>
<td>CA</td>
<td>Easy</td>
<td>OPTION C IS CORRECT: Urban Forests uses the Miyawaki method to create urban forests. Miyawaki urban forests are fascinating complex ecosystems, in balance with today's soil and climate conditions. This technique works worldwide irrespective of soil and climatic conditions. Over 2000 forests were successfully created using this method. Doctor Akira Miyawaki, botanist and professor, is the inventor of the technic since 1980. He is a recipient of the 2006 Blue Planet Prize, which is the equivalent of a Nobel Prize in ecology.</td>
<td></td>
</tr>
<tr>
<td>51</td>
<td>Modern History</td>
<td>Easy</td>
<td>STATEMENT 1,3 AND 4 ARE CORRECT: Local self government was included in the transferred list.</td>
<td></td>
</tr>
</tbody>
</table>
4. Police
Select the correct answer using the code given below:
- a) 1, 2 and 3
- b) 2, 3 and 4
- c) 1, 3 and 4
- d) 1, 2 and 4

52. In medieval India, the term “Fanam” referred to:
   - a) Clothing
   - b) Coins
   - c) Ornaments
   - d) Weapons

<table>
<thead>
<tr>
<th>Medieval History</th>
<th>B</th>
<th>Difficult</th>
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</thead>
<tbody>
<tr>
<td>Option b is correct. Fanam was a type of money that was issued by the State of Travancore, now mainly a part of Kerala in South India. The Fanams (also spelt Fanoms) and Chuckrams (or Chakrams) were known to be some of the smallest coins in the world. The word Fanam appears to be an Anglo-Germanic sound shift from the word Panam, which means money in Dravidian languages. Historically, the Fanam and Chuckram coins were the regular unit of currency in medieval Travancore and appear to have been extensively used for trading in the region of South India. The words Fanam and Panam literally mean money and are still used as a synonym for wealth in Kerala in the native language of Malayalam.</td>
<td><a href="https://www.deccanchronicle.com/nation/current-affairs/230918/chennai-different-sides-of-same-coin.html">Link</a></td>
<td></td>
</tr>
</tbody>
</table>

53. Consider the following freedom fighters:
   1. Barindra Kumar Ghosh
   2. Jogesh Chandra Chatterjee
   3. Rash Behari Bose
Who of the above was/were actively associated with the Ghadar Party?
- a) 1 and 2
- b) 2 only
- c) 1 and 3
- d) 3 only

<table>
<thead>
<tr>
<th>Modern History</th>
<th>D</th>
<th>Medium</th>
</tr>
</thead>
<tbody>
<tr>
<td>Option d is correct. Thus during World War I Rash behari bose became extensively involved as one of the leading figures of the Gadar Revolution that attempted to trigger a mutiny in India in February 1915. Trusted and tried Ghadrites were sent to several cantonments to infiltrate into the army. The idea of the Gadar leaders was that with the war raging in Europe most of the soldiers had gone out of India and the rest could be easily won over. The revolution failed and most of the revolutionaries were arrested. But Rash Behari managed to escape British intelligence and reached Japan in 1915.</td>
<td><a href="https://en.m.wikipedia.org/wiki/Rash_Behari_Bose">Link</a></td>
<td></td>
</tr>
</tbody>
</table>

54. With reference to the proposals of Cripps Mission, consider the following statements:
   1. The Constituent Assembly would have members nominated by the Provincial Assemblies as well as the Princely States.
   2. Any Province, which is not prepared to accept the new Constitution would have the right to sign a separate agreement with Britain regarding its future status.
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>Modern History</th>
<th>B</th>
<th>Medium</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOTH THE STATEMENTS ARE CORRECT: Proposals of Cripps Mission Setting up of an Indian dominion. This dominion would have the freedom to remain with the British Commonwealth or to secede from it. It would also be at liberty to take part in international organisations. A Constituent Assembly would be formed to frame a new constitution for the country. This Assembly would have members elected by the provincial assemblies and also nominated by the princes. Any province unwilling to join the Indian dominion could form a separate union and have a separate constitution.</td>
<td><a href="https://ncert.nic.in/ncerts/l/lehsh305.pdf">Link</a></td>
<td></td>
</tr>
</tbody>
</table>
55. With reference to Indian history, consider the following texts:
   1. Nettipakarana
   2. Parishishtaparvan
   3. Avadanashataka
   4. Trishashilakhana Mahaparana
   Which of the above are Jaina texts?
   a) 1, 2 and 3
   b) 2 and 4 only
   c) 1, 3 and 4
   d) 2, 3 and 4

   Ancient History B Difficult
   The Avadānālakāta or “Century of Noble Deeds (Avadāna)” is an anthology in Sanskrit of one hundred Buddhist legends, approximately dating to the same time as the Ashokavadana. Ratnamālāvadāna. The work may be from the Mulasarvatvavada school.
   https://en.wikipedia.org/wiki/Aavadanasataka

56. With reference to Indian history, consider the following pairs:
   Historical person Known as
   Aryadeva : Jaina Scholar
   Dignaga : Buddhist Scholar
   Nathamuni : Vaishnava scholar
   How many pairs given above are correctly matched?
   a) None of the pairs
   b) Only one pair
   c) Only two pairs
   d) All three pairs

   Ancient History C Difficult
   Option c is correct. Aryadeva – Buddhist scholar. Dignaga was an Indian Buddhist scholar and one of the Buddhist founders of Indian logic. Nathamuni was a vaishnava theologian who collected and compiled the Nalayira Divya Prabandham. Considered the first of Sri Vaishnava āchāryās, Nathamuni is also the author of Yogarahasya, and Nyāyatattva. Hence only 2 pairs are correct.
   https://www.thehindu.com/society/faith/nathamuni-and-alavandar/article34038058.ece

57. With reference to Indian history, consider the following statements:
   1. The first Mongol invasion of India happened during the reign of Jalal-ud-din Khalji.
   2. During the reign of Ala-ud-din Khalji, one Mongol assault marched up to Delhi and besieged the city.
   3. Muhammad-bin-Tughlaq temporarily lost portions of north-west of his kingdom to Mongols.
   Which of the statements given above is/are correct?
   a) 1 and 2
   b) 2 only
   c) 1 and 3
   d) 3 only

   Medieval History B Easy
   Statement 1 is incorrect: The first Mongol invasion of India took place in the reign of Sultan Shamsud-din Iltutmish. In 1221, the Mongols, under Genghis Khan, appeared for the first time on the banks of the river Indus. Statement 2 is correct: In the winter of 1297, Kadar, a noyan of the Mongol Chagatai Khanate invaded the Delhi Sultanate ruled by Alauddin Khalji. The Mongols ravaged the Punjab region of modern day Pakistan and India, advancing as far as Kasur. Statement 3 is incorrect: In 1327 the Chagatai Mongols under Tarmashirin. Tarmashirin laid siege to Delhi and he only lifted it when he was paid a huge ransom by the Tughlaqs. No major invasions would take place following Tarmashirin’s siege of Delhi.
   https://ncert.nic.in/ncerts/l/gess103.pdf

58. With reference to Indian history, who of the following were known as “Kulah-Daran”?
   a) Arab merchants
   b) Qalandars
   c) Persian calligraphists
   d) Sayyids

   Art And Culture D Difficult
   The Sayyids were claimed to descent from the Prophet through his daughter Fatima. They commanded special respect in Muslim society. Even the Timur protected the life of Sayyids during his invasion in India. Although his policy was one
   History of Medieval India by V.D Mahajan
59. With reference to Indian history, consider the following statements:

1. The Dutch established their factories/warehouses on the east coast on lands granted to them by Gajapati rulers.
2. Alfonso de Albuquerque captured Goa from the Bijapur Sultanate.
3. The English East India Company established a factory at Madras on a plot of land leased from a representative of the Vijayanagara empire.

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

59. Modern History | B | Medium

Statement 2 is incorrect: Dutch arrived and built factories in 1605 and Gajapati rulers were perished bu 1543. Statement 2 and 3 is correct: Alfonso de Albuquerque captured the city in 1510 from the Adil Shahis. Goa, which became the capital of the Portuguese East Indies and Portuguese Indian territories such as Born Baim, was not among the places Albuquerque was supposed to conquer.

60. According to Kautilya’s ‘Arthashastra’, which of the following are correct?

1. A person could be a slave as a result of a judicial punishment.
2. A female slave bore her master a son, she was legally free.
3. If a son born to a female slave was fathered by her master, the son was entitled to the legal status of the master’s son.

Which of the statements given above are correct?

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

60. Ancient History | A | Difficult

The Arthashastra states that a man could be a slave either by birth, by voluntarily selling himself, by being captured in war, or as a result of a judicial punishment. Slavery was a recognized institution and the legal relationship between master and slave was clearly defined e.g. if a female slave bore her master a son, not only was she legally free but the child was entitled to legal status of the master’s son.

61. Consider the following statements:

1. Tight monetary policy of US Federal Reserve could lead to capital flight.
2. Capital flight may increase the interest cost of firms with existing External Commercial Borrowings (ECB).
3. Devaluation of domestic currency decrease the currency risk associated with ECBS.

Which of the statements given above are correct?

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

61. Economy | A | Difficult

OPTION A IS CORRECT

Statement 1 is correct: Tight, or contractionary monetary policy is a course of action undertaken by a central bank such as the Federal Reserve to slow down overheated economic growth, constrict spending in an economy that is seen to be accelerating too quickly, or curb inflation when it is rising too fast. US Fed Reserve recently tighten its monetary policy, which led to an increase in interest rates in the US economy and hence the portfolio investors in India pull out their money and invested in the US economy.
62 Consider the following States:
1. Andhra Pradesh
2. Kerala
3. Himachal Pradesh
4. Tripura
How many of the above are generally known as tea-producing States?
(a) Only one State
(b) Only two States
(C) Only three States
(d) All four States

Geography D Easy

OPTION D IS CORRECT
All four are correct. Tea cultivation is an example of plantation agriculture. The tea plant grows well in tropical and subtropical climates endowed with deep and fertile well-drained soil, rich in humus and organic matter. Tea bushes require warm and moist frost-free. Major tea-producing states are Assam, the hills of Darjeeling and Jalpaiguri districts, West Bengal, Tamil Nadu and Kerala. Apart from these, Himachal Pradesh, Uttarakhand, Meghalaya, Andhra Pradesh and Tripura are also tea-producing states in the country. In 2018 India was the second-largest producer of tea after China.


https://www.iasgyan.in/daily-current-affairs/tea-industry-in-india-8

PRELIMS TEST SERIES 2022

63 Consider the following statements:
1. In India, credit rating agencies are regulated by the Reserve Bank of India.
2. The rating agency popularly known as ICRA is a public limited company.
3. Brickwork Ratings is an Indian credit rating agency.
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

Economy B Easy

OPTION B IS CORRECT
Statement 1 is incorrect: In India, credit rating agencies are regulated by the Securities Exchange Board of India (SEBI).
Statement 2 is correct: ICRA Limited (formerly Investment Information and Credit Rating Agency of India Limited) was set up in 1991 by leading financial/investment institutions, commercial banks and financial services companies as an independent and professional Investment Information and Credit Rating Agency. ICRA is a Public Limited Company, with its shares listed on the Bombay Stock Exchange and the National Stock Exchange.
Statement 3 is correct: Brickwork Ratings (BWR) is a Bengaluru based company registered with the Securities and Exchange Board of India (SEBI) in 2008.


### Question 64

**With reference to the ‘Banks Board Bureau (BBB)’, which of the following statements are correct?**

1. The Governor of RBI is the Chairman of BBB.
2. BBB recommends the selection of heads for Public Sector Banks.
3. BBB helps the Public Sector Banks in developing strategies and capital raising plans.

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

**Answer:**

<table>
<thead>
<tr>
<th>Economy</th>
<th>B</th>
<th>Easy</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPTION B IS CORRECT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Statement 1 is incorrect: BBB was set up in February 2016 as an autonomous body—based on the recommendations of the RBI-appointed Nayak Committee. It was part of the Indradhanush Plan. The Ministry of Finance takes the final decision on the appointments in consultation with the Prime Minister's Office.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Statement 2 is correct: It makes recommendations for the appointment of whole-time directors as well as non-executive chairpersons of Public Sector Banks (PSBs) and state-owned financial institutions. Statement 3 is correct: Assisting banks with the strategies to deal with issues of bad loans or stressed assets is the agenda of BBB.</td>
<td></td>
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</tbody>
</table>

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### Question 65

**Convertible Bonds, consider the following statements:**

1. As there is an option to exchange the bond for equity, Convertible Bonds pay a lower rate of interest.
2. The option to convert to equity affords the bondholder a degree of indexation to rising consumer prices.

Which of the statements given above is/are correct?

**Answer:**

<table>
<thead>
<tr>
<th>Economy</th>
<th>C</th>
<th>Difficult</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPTION C IS CORRECT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Statements 1 and 2 are correct. Convertible bond is a type of fixed income security sold by public companies that can be converted into common shares of the issuing company’s stock. Convertible bonds work just like Corporate Finance Institute paper on Convertible Bonds</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Question Number</th>
<th>Question</th>
<th>Options</th>
<th>Correct Answer</th>
<th>Difficulty Level</th>
<th>Explanation</th>
</tr>
</thead>
</table>
| 66              | Consider the following: 1. Asian Infrastructure Investment Bank         | (a) 1 and 2 only  
(b) 3 only  
(c) 1 and 2  
(d) 1, 2 and 3            | CA D Easy          | OPTION D IC CORRECT | India is a member of all the above mention organisations. |
| 67              | Consider the following statements: 1. Vietnam has been one of the fastest-growing economies in the world in recent years. 2. Vietnam is led by a multi-party political system. 3. Vietnam’s economic growth is linked to its integration with global supply chains and focus on exports. 4. For a long time, Vietnam’s low labour costs and stable exchange rates have attracted global manufacturers. 5. Vietnam has the most productive e-service sector in the Indo-Pacific region. Which of the statements given above are correct?  | (a) 2 and 4  
(b) 3 and 5  
(c) 1 and 2  
(d) 1, 3 and 4   | CA C Difficult     | OPTION C IS CORRECT | Statement 1 and 2 are correct: A recent GDP growth statistics report states that Vietnam is the fastest growing world economy with a growth rate of 7.31% in 2019. It has surpassed the growth rate of other Asian economies including India and China, which stand at 4.5% and 6% CAGR respectively. Vietnam currently is led by a multi-party system.  
Statement 3, 4 and 5 are incorrect: Vietnam’s economy expanded in Q1 2022 showing the country is open for businesses and visitors, however, challenges remain due to labour shortages, disruption to supply chains, and inflation. |
| 68              | In India, which one of the following is responsible for maintaining price stability by controlling inflation? (a) Department of Consumer Affairs  
(b) Expenditure Management Commission  
(c) Financial Stability and Development Council  
(d) Reserve Bank of India | (a) 4 only  
(b) 2 or 3 only  
(c) 1 and 2  
(d) Both 1 and 2            | Economy D Easy      | OPTION D IS CORRECT | RBI's primary objective is to control inflation and the secondary objective is to maintain GDP growth. |

Footnotes:
https://en.wikipedia.org/wiki/Foreign_relations_of_India#:~:text=India%20is%20a%20member%,the%20fifth%20largest%20troop%20contributor.
https://www.investopedia.com/articles/03/050703.asp#:~:text=As%20it%20is%20responsible%20for,by%20means%20of%20monetary%20policy.
69. With reference to Non-Fungible Tokens (NFTs), consider the following statements:
1. They enable the digital representation of physical assets.
2. They are unique cryptographic tokens that exist on a blockchain.
3. They can be traded or exchanged at equivalency and therefore can be used as a medium of commercial transactions.
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

Economy A Difficult

Statement 1 is correct: Anything that can be converted into a digital form can be an NFT. Everything from your drawings, photos, videos, GIFs, music, in-game items, selfies, and even a tweet can be turned into an NFT, which can then be traded online using cryptocurrency.

Statement 2 is correct: NFTs are unique from other digital forms as it is backed by Blockchain technology.

Statement 3 is incorrect: NFTs are different. Each has a digital signature that makes it impossible for NFTs to be exchanged for or equal to one another (hence, non-fungible).

https://www.blockchainappfactory.com/nft-for-physical-assets#:~:text=Physical%20NFT%20is%20the%20term%20used%20for%20the%20asset%20it%20is%20representing.

70. Consider the following pairs:
Reservoirs: States
2. Gandhi Sagar: Madhya Pradesh
3. Indira Sagar: Andhra Pradesh
4. Maithon: Chhattisgarh
How many pairs given above are not correctly matched?
(a) Only one pair
(b) Only two pairs
(c) Only three pairs
(d) All four pairs

CA C Medium

OPTION C IS CORRECT
Only 2nd pair of Gandhi Sagar water reservoir in Madhya Pradesh is correctly matched. Remaining: Ghataprabha is in Karnataka Indira Sagar is in Madhya Pradesh Maithon dam in Jharkhand


71. In India, which one of the following compiles information on industrial disputes, closures, retrenchments and lay-offs in factories employing workers?
(a) Central Statistical Office
(b) Department for Promotion of Industry and Internal Trade
(c) Labour Bureau
(d) National Technical Manpower Information System

In India, Labour Bureau compiles information on industrial disputes, closures, retrenchments and lay-offs in factories employing workers.

http://www.labourbureaunew.gov.in/ViewContent/ID_ReView_2014.pdf?pr_id=FfR6m4XUVE%3D

72. In India, what is the role of the Coal Controller’s Organisation (CCO)?
1. CCO is the major source of coal Statistics in the Government of India.
2. It monitors the progress of the development of Captive Coal/Lignite blocks.
3. It hears any objection to the Government’s notification relating to the acquisition of coal-bearing areas.
4. It ensures that cool mining companies deliver the coal to end-users in the prescribed time.

Select the correct answer using the code given below:

Economy A Difficult

OPTION A IS CORRECT
 Functions of the Coal Controller’s Organisation are listed as below- Under Colliery Control Rules, 2004 – To lay down procedure and standard for sampling of coal. Inspection of collieries so as to ensure the correctness of the class, grade or size of coal.

http://www.coalcontroller.gov.in/pages/display/5-functionsresponsibilities
(a) 1, 2 and 3
(b) 3 and 4 only
(c) 1 and 2 only
(d) 1, 2 and 4

To issue directives for the purpose of declaration and maintenance of grades of coal of a seam mined in a colliery.

To act as the appellate authority in case of dispute between consumers and owners arising out of the declaration of grade and size of coal.

To regulate the disposal of stock of coal or the expected output of coal in the colliery.

Quality surveillance with respect to maintenance of grade, and loading of coal in wagons/trucks according to laid down procedures regarding grades and sizes.

To grant opening/re-opening permission of coal mine, seam or a section of seam or to subdivide a mine.


Providing financial support to the coal operators for:

- Ensuring the conservation of coal resources: Stowing in UG mines.
- Undertaking the development of coal mines in a scientific manner.
- Undertaking research in relation to conservation of coal, development of coal mines and utilization of coal.
- Protective works include blanketing with incombustible material, N2 & CO2 flushing, filling up of subsided areas, cutting of trenches etc.
- Infrastructure development such as Road/Rail infrastructures in coalfields.

Under Collection of Statistics Act, 2008 - Coal Controller has been made the statistical authority with respect to coal and lignite statistics. Entrusted the responsibility of carrying out Annual Coal & Lignite survey and publishing of Provisional Coal Statistics and Coal Directory of India. Submission of monthly coal data to different ministries of central and state Govt., national and international organization. Collection of Statistics relating to coal washeries.

Under Coal Bearing Area (Acquisition and Development) Act, 1957 - The coal Controller is the competent authority under this act to hear any objection to the Central
| Q. 73 | If a particular area is brought under the Fifth Schedule of the Constitution of India, which one of the following statements best reflects the consequence of it?  
(a) This would prevent the transfer of land of tribal people to non-tribal people.  
(b) This would create a local self-governing body in that area.  
(c) This would convert that area into a Union Territory.  
(d) The State having such areas would be declared a Special Category State. | Polity | A | Easy | OPTION A IS CORRECT  
Under Article 244(1) of the Constitution, the provisions of the Fifth Schedule shall apply to the administration and control of the Scheduled Areas and Scheduled Tribes in any state other than the State of Assam, Meghalaya, Tripura, and Mizoram. The principal object of these specific provisions in the Fifth Schedule Fifth and Sixth Schedules is to protect the interests and rights of the tribals in their land, habitat and economy; and to preserve the community's customs and tradition and to ensure faster socio-economic development in the “Scheduled Areas”. | https://www.mea.gov.in/images/pdf1/55.pdf | APTIPLUS STUDY MATERIAL ON POLITY |

| Q. 74 | Consider the following statements:  
1. The Indian Sanitation Coalition is a platform to promote sustainable sanitation and is funded by the Government of India and the World Health Organisation.  
2. The National Institute of Urban Affairs is an apex body of the Ministry of Housing and Urban Affairs in the Government of India and provides innovative solutions to address the challenges of Urban India.  
Which of the statements given is/are correct?  
(a) 1 only  
(b) 2 only  
(c) Both 1 and 2  
(d) Neither 1 nor 2 | CA | D | Medium | OPTION D IS CORRECT  
Statement 1 is incorrect: The India Sanitation Coalition was launched on June 25, 2015, at FICCI, New Delhi. ISC is a multi-stakeholder platform that brings together the private sector, government, financial institutions, civil society groups, media, donors/bi-lateral/multilateral, experts etc. to work in the sanitation space to drive sustainable sanitation through a partnership model.  
Which one of the following has been constituted under the Environment (Protection) Act, 1986?

(a) Central Water Commission  
(b) Central Ground Water Board  
(c) Central Ground Water Authority  
(d) National Water Development Agency

Environment C Medium OPTION C IS CORRECT Central Ground Water Authority has been constituted under Section 3 (3) of the Environment (Protection) Act, 1986 to regulate and control the development and management of groundwater resources in the country.

Which of the following statements best describes the ‘Polar Code’?

(a) It is the international code of safety for ships operating in polar waters.  
(b) It is the agreement of the countries around the North Pole regarding the demarcation of their territories in the polar region.  
(c) It is a set of norms to be followed by the countries whose scientists undertake research studies in the North Pole and the South Pole.

Environment A Easy OPTION A IS CORRECT The Polar Code is intended to cover the full range of shipping-related matters relevant to navigation in waters surrounding the two poles – ship design, construction and equipment; operational and training concerns; search and rescue; and, equally
(d) It is a trade and security agreement of the member countries of the Arctic Council.

important, the protection of the unique environment and eco-systems of the polar regions. The Polar Code includes mandatory measures covering safety part (part I-A) and pollution prevention (part II-A) and recommendatory provisions for both (parts I-B and II-B).

78 With reference to the United Nations General Assembly, consider the following statements:
1. The UN General Assembly can grant observer status to the non-member States.
2. Inter-governmental organisations can seek observer status in the UN General Assembly.
3. Permanent Observer in General Assembly can maintain missions at the UN headquarters.
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

79 With reference to the “Tea Board” in India, consider the following statements:
1. The Tea Board is a statutory body.
2. It is a regulatory body attached to the Ministry of Agriculture and Farmers Welfare.
3. The Tea Board’s Head Office is situated in Bengaluru.
4. The Board has overseas offices at Dubai and Moscow.
Which of the statements given above are correct?
(a) 1 and 3
(b) 2 and 4
(c) 3 and 4
(d) 1 and 4

80 Which one of the following best describes the term “greenwashing”?
(a) Conveying a false impression that a company’s products are eco-friendly and environmentally sound.
(b) Non-inclusion of ecological/environmental costs in the Annual Financial Statements of a country.
(c) Ignoring the consequences disastrous ecological while infrastructure development undertaking.
(d) Making mandatory provisions for environmental costs in a government project/programme.

81 Consider the following statements:
(a) Conveying a false impression that a company’s products are eco-friendly and environmentally sound.
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(c) Ignoring the consequences disastrous ecological while infrastructure development undertaking.
(d) Making mandatory provisions for environmental costs in a government project/programme.

81 Consider the following statements:
### a1. High clouds primarily reflect solar radiation and cool the surface of the Earth.
2. Low clouds have a high absorption of infrared radiation emanating from the Earth’s surface and thus cause warming effect.
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

### 82
Consider the following statements:
1. Bidibidi is a large refugee settlement in north-western Kenya.
2. Some people who fled from South Sudan civil war live in Bidibidi.
3. Some people who fled from civil war in Somalia live in Dadaab refugee complex in Kenya.
Which of the statements given above is/are correct?
(a) 1 and 2
(b) 2 only
(c) 2 and 3
(d) 3 only

### 83
Consider the following countries
1. Armenia
2. Azerbaijan
3. Croatia
4. Romania
5. Uzbekistan
Which of the above are members of the Organization of Turkic States?
(a) 1, 2 and 4
(b) 1 and 3
(c) 2 and 5
(d) 3, 4 and 5

### 84
Consider the following statements
1. Gujarat has the largest solar park in India.
2. Kerala has a fully solar-powered International Airport.
3. Goa has the largest floating solar photovoltaic project in India.
Which of the statements given below is/are correct?
(a) 1 and 2
(b) 2 only
(c) 1 and 3
(d) 3 only

### 85
Consider the following statements:
1. Bidibidi is a large refugee settlement in north-western Uganda. With over 270,000 South Sudanese refugees fleeing the ongoing civil war, as of early 2017 it was the largest refugee settlement in the world.

### 86
Consider the following countries
1. Armenia
2. Azerbaijan
3. Croatia
4. Romania
5. Uzbekistan
Which of the above are members of the Organization of Turkic States?
(a) 1, 2 and 4
(b) 1 and 3
(c) 2 and 5
(d) 3, 4 and 5

### 87
Consider the following statements:
1. Gujarat has the largest solar park in India.
2. Kerala has a fully solar-powered International Airport.
3. Goa has the largest floating solar photovoltaic project in India.
Which of the statements given below is/are correct?
(a) 1 and 2
(b) 2 only
(c) 1 and 3
(d) 3 only
With reference to the United Nations Convention on the Law of Sea, consider the following statements:
1. A coastal state has the right to establish the breadth of its territorial sea up to a limit not exceeding 12 nautical miles, measured from baseline determined in accordance with the convention.
2. Ships of all states, whether coastal or land-locked, enjoy the right of innocent passage through the territorial sea.
3. The Exclusive Economic Zone shall not extend beyond 200 nautical miles from the baseline from which the breadth of the territorial sea in measure.

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

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Which one of the following statements best reflects the issue which Senkaku Islands, sometimes mentioned in the news?
(a) It is generally believed that they are artificial islands made by a country around South China Sea.
(b) China and Japan engage in maritime disputes over these islands in East China Sea.
(c) A permanent American military base has been set up there to help Taiwan to increase its defence capabilities.
(d) Through International Courts of Justice declared them as no man’s land, some South-East Asian countries claim them.

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Consider the following pairs
Country: Important reason for being in the news recently
1. Chad: Setting up of permanent military base by China
2. Guinea: Suspension of Constitution and Government by military
3. Lebanon: Severe and prolonged economic depression
4. Tunisia: Suspension of Parliament by President

How many pairs given above are correctly matched?
(a) Only one pair
(b) Only two pairs
(c) Only three pairs
(d) All four Pairs
<table>
<thead>
<tr>
<th>Region often mentioned, in the news</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anatolia</td>
<td>Turkey</td>
</tr>
<tr>
<td>Amhara</td>
<td>Ethiopia</td>
</tr>
<tr>
<td>Cabo Delgado</td>
<td>Spain</td>
</tr>
<tr>
<td>Catalonia</td>
<td>Italy</td>
</tr>
</tbody>
</table>

How many pairs given above are correctly matched?
(a) Only one pair
(b) Only two pairs
(c) Only three pairs
(d) All four pairs

CA: Catalonia is an autonomous community of Spain, designated as a nationality by its Statute of Autonomy. Cabo Delgado is the northernmost province of Mozambique. Anatolia constitutes the major part of modern-day Turkey. Amhara is a regional state in northern Ethiopia and the homeland of the Amhara people. Its capital is Bahir Dar which is the seat of the Regional Government of Amhara.
| 89 | With reference to Indian laws about wildlife protection, consider the following statements:  
1. Wild animals are the sole property of the government.  
2. When a wild animal is declared protected, such animal is entitled to equal protection whether it is found in protected areas or outside.  
3. Apprehension of a protected wild animal becoming a danger to human life is sufficient ground for its capture or killing.  
Which of the statements given above is/are correct?  
(a) 1 and 2  
(b) 2 only  
(c) 1 and 3  
(d) 3 only | Environment | A | Difficult | Read Provisions here: https://indiankanoon.org/doc/1781078/ 

| 90 | Certain species of which one of the following organisms are well known as cultivators of fungi?  
(a) Ant  
(b) Cockroach  
(c) Crab  
(d) Spider | Environment | A | Difficult | The ant–fungus mutualism is a symbiosis seen between certain ant and fungal species, in which ants actively cultivate fungus much like humans farm crops as a food source. Today, about 240 species of attine ants—the leafcutters among them—are known to farm fungus in the Americas and the Caribbean. 

| 91 | Consider the following pairs:  
1. Dhauli– Odisha  
2. Erragudi– Andhra Pradesh  
3. Jaugada– Madhya Pradesh  
4. Kalsi– KarnatakA  
How many pairs given above are correctly matched?  
(a) Only one pair  
(b) Only two pairs  
(c) Only three pairs  
(d) All four pairs | History | B | Difficult | Dhauli is in Odisha. Erragudi is in Andhra Pradesh. Jaugada is in Odisha. is located between Dehradun and Chakrata hill station along the banks of the river Yamuna and is the confluence of the rivers, Yamuna and Tons. Kalsi is in Uttarakhand. 
Consider the following pairs:
King: Dynasty
1. Nannuka– Chandela
2. Jayashakti– Paramara
3. Nagabhata II– Gurjara-Pratihara
4. Bhoja– Rashtrakuta
How many pairs given above are correctly matched?
(a) Only one pair
(b) Only two pairs
(c) Only three pairs
(d) All four pairs

<table>
<thead>
<tr>
<th>History</th>
<th>B Medium</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nannuka (r. c. 831-845 CE) was the founder of the Chandela dynasty of India. Jayashakti was a 9th-century ruler from the Chandela dynasty of Central India. Nagabhata II (reign 795–833) was an Indian Emperor from Gurjara-Pratihara dynasty. Bhoja popularly known as Raja Bhoj Parmar (reigned c. 1010–1055 CE) was an Indian King from the Paramara dynasty.</td>
<td></td>
</tr>
</tbody>
</table>
93 Which one of the following statements about Sangam literature in ancient South India is correct?
(a) Sangam poems are devoid of any reference to material culture.
(b) The social classification of Varna was known to Sangam poets.
(c) Sangam poems have no references to warrior ethic.
(d) Sangam literature refers to magical forces as irrational.

History B Medium
The social classification of Varna was known to Sangam poets. Brahmins are mentioned. Also, mentioned Arasar (King), Varshiyar (traders) & Velalar (farmers).
https://www.google.co.in/books/edition/A_History_of_Ancient_and_Early_Medieval/cvauDwAQAIAJ?hl=en&gbpv=1&dq=Social+Classification+of+Varna+was+known+to+Sangam+Poets&printsec=frontcover
APTIPLUS STUDY MATERIAL ON ANCIENT HISTORY

94 “Yogavasistha” was translated into Persian by Nizamuddin Panipati during the reign of:
(a) Akbar
(b) Humayun
(c) Shahjahan
(d) Aurangzeb

History A Difficult
Yogavasistha” was translated into Persian by Nizamuddin Panipati during the reign of Akbar.

95 The world’s second tallest statue in sitting pose of Ramanuja was inaugurated by the Prime Minister of India at Hyderabad recently. Which one of the following statements correctly represents the teachings of Ramanuja?
(a) The best means of salvation was devotion.
(b) Vedas are eternal, self-existent and wholly authoritative.
(c) Logical arguments were essential means for the highest bliss.
(d) Salvation was to be obtained through meditation.

History A Medium
Ramanuja presented the epistemic and soteriological importance of bhakti, or the devotion to a personal God (Vishnu in Ramanuja’s case) as a means to spiritual liberation. His theories assert that there exists a plurality and distinction between Ātman (soul) and Brahman (metaphysical, ultimate reality), while he also affirmed that there is unity of all souls and that the individual soul has the potential to realize identity with the Brahman.
https://www.iasgyan.in/daily-current-affairs/ramanuja-charya

96 The Prime Minister recently inaugurated the new Circuit House near Somnath Temple at Veraval. Which of the following statements are correct regarding Somnath Temple?
1. Somnath Temple is one of the Jyotirlinga shrines.
2. A description of Somnath Temple was given by Al-Biruni.
3. Pran Pratishtha of Somnath Temple (installation of the present day temple) was done by President S. Radhakrishnan.
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

History A Medium
The contemporary Somnath temple’s reconstruction was started under the orders of the first Home Minister of India Vallabhbhai Patel and completed in May 1951 after his death. President was Nehru.
https://hindupad.com/somnath-pran-pratishtha/

97 Which one of the following statements best describes the role of B cells and T cells in the human body?

S&T D Easy
They protect the body from the diseases caused by pathogens.
<table>
<thead>
<tr>
<th>Consider the following statements:</th>
<th>S&amp;T</th>
<th>D</th>
<th>Medium</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Other than those made by humans, nanoparticles do not exist in nature.</td>
<td>(a) 1 only</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Nanoparticles of some metallic oxides are used in the manufacture of some cosmetics.</td>
<td>(b) 3 only</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Nanoparticles of some commercial products which enter the environment are unsafe for humans.</td>
<td>(c) 1 and 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Which of the statements given above is/are correct?</td>
<td>(d) 2 and 3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Consider the following statements:

DNA Barcoding can be a tool to:

1. assess the age of a plant or animal.
2. distinguish among species that look alike.
3. identify undesirable animal or plant materials in processed foods.

Which of the statements given above is/are correct?

(a) 1 only
(b) 3 only
(c) 1 and 2
(d) 2 and 3
Consider the following
1. Carbon monoxide
2. Nitrogen oxide
3. Ozone
4. Sulphur dioxide
Excess of which of the above in the environment is/are cause(s) of acid rain?
(a) 1, 2 and 3
(b) 2 and 4 only
(c) 4 only
(d) 1, 3 and 4

<table>
<thead>
<tr>
<th>Environment</th>
<th>B</th>
<th>Medium</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Excess of NITROGEN OXIDE AND SO2 causes acid rain. Carbon monoxide does not react with water to form an acid. Ozone does not cause acid rain.

[Link to EPA website](https://www.epa.gov/acidrain/what-is-acid-rain)

Wishing all the best to all of you!