

GS-1 Prelims Exam 2022



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Questions with Answers Prelims 2022

NOTE: We are trying you the best probable answers.

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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

(b)

Rapid Financing Instrument (RFI)

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.

Source: Aspire IAS Sanjeevani NOTES

<https://www.imf.org/en/About/Factsheets/Sheets/2016/08/02/19/55/Rapid-Financing-Instrument>

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.

Which of the above statements are correct?

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

(c)

Explanation:

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. REER data may be accessed through the International Financial Statistics (IFS) dataset portal here.

Source: Reserve Bank of India - RBI Bulletin

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3. 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

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(b) 2 and 3 only

(c) 1 and 3 only

(d) 1, 2 and 3

(b)

Explanation: In a repo, one party sells an asset (usually fixed-income securities) to another party at one price and commits to repurchase the same or another part of the same asset from the second party at a different price at a future date or (in the case of an open repo) on demand.

More money more inflation SO Statement 1 is wrong.

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4. With reference to the “G20 Common Framework”, consider the following statements:

1. It is an initiative endorsed by the G20 together with the Paris Club.
2. It is an initiative to support Low Income Countries with unsustainable 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

(a)

Source: <https://www.mef.gov.it/en/G20-Italy/common-framework.html>

5. With reference to the India economy, what are the advantages of “Inflation-Indexed Bonds (IIBs)”?

1. Government can reduce the coupon rates on its borrowing by way of IIBs.
2. IIGs provide protection to the investors from uncertainty regarding inflation.
3. The interest received as well as capital gains on IIBs is not taxable.

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

(a)

Explanation: No special treatment regarding taxation

Source: Aspire IAS Sanjeevani

<https://www.rbi.org.in/commonman/English/Scripts/FAQs.aspx?Id=1165>

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6. With reference to foreign-owned e-commerce firms operating in India, which of the following statements is/are correct?

1. They can sell their own goods in addition to offering their platforms as market-places.
2. The degree to which they can own big sellers on their platforms is limited.

Select the correct answer using the code given below:

(a) 1 only

(b) 2 only

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(c) Both 1 and 2

(d) Neither 1 nor 2

(c) **Aspire sanjeevani NOTES**

<https://www.aspireias.com/daily-news-analysis-current-affairs/eCommerce-rules-in-India>

Marketplace and Inventory-Based Model

- **Marketplace based model of e-commerce means providing an information technology platform by an e-commerce entity on a digital & electronic network to act as a facilitator between the buyer and seller. In a marketplace model, the e-commerce firm is not allowed to directly or indirectly influence the sale price of goods or services and is required to offer a level playing field to all vendors. Ex. Amazon, OYO etc.**
- **Inventory based model of e-commerce means an e-commerce activity where the inventory of goods and services is owned by e-commerce entity and is sold to the consumers directly. Ex. Big basket.**

7. Which of the following activities constitute real sector in the economy?

1. Farmers harvesting their crops
2. Textile mills converting raw cotton into fabrics
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

(a)

All non-financial units and households

The real sector of the economy deals with the production side, while the nominal economy deals with the financial side.

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**

(d)

Indirect transfers refer to **situations where when foreign entities own shares or assets in India, the shares of such foreign entities are transferred instead of a direct transfer of the underlying assets in India.**

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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
 (c)

Capital expenditures (CapEx) are funds used by a company to acquire, upgrade, and maintain physical assets such as property, plants, buildings, technology, or equipment.

Equity financing is the process of raising capital through the sale of shares. Companies raise money because they might have a short-term need to pay bills or have a long-term goal and require funds to invest in their growth.

<https://www.investopedia.com/terms/e/equityfinancing.asp>

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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
 (c)

<https://www.aspireias.com/daily-news-analysis-current-affairs/Public-debt>

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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 and 2 only
 (b) 1, 2 and 4 only

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- (c) 3 and 4 only
 (d) 3 only
(b)

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
(c)

Thus Law Graduates working in Corporate Fields are not eligible to appear in the courts of law. Thus **Corporate Lawyers cannot be called Advocates**. On the other hand, an Advocate is a Law graduate enrolled with the bar council and eligible to represent his client in the court of law.

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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
(b)

No prior approval of the President is required for the Constitutional Amendment Act.

Source: LakshmiKant

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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

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

Constitution of India does not define any categorisation of ministers.

Source: LakshmiKant

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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
(b)

Article 75 of the Constitution says that 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 confidence of the majority of the members of the Lok Sabha. In other words, the Lok Sabha can remove the ministry from office by passing a noconfidence motion. The motion needs the support of 50 members to be admitted. (Source: LakshmiKant)

LakshmiKant

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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
(b)

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. **LakshmiKant**

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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.

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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
- (d)

Explanation: 1. Only Attorney General of India allowed to participate in the meetings of the Parliament of India.

According to the parliamentary convection NOT CONSTITUTION, the Attorney General of India submits his resignation when the Government which appointed him resigns.

LakshmiKant

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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
- (c)

LakshmiKant

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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.
3. It has seamless portability across the country.

Which of the statements given above is/are correct?

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

Explanation:

<https://www.aspireias.com/daily-news-analysis-current-affairs/Ayushman-Bharat-Digital-Mission>

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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 Deputy 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
 (a)

Like the Speaker, the Deputy Speaker is also elected by the Lok Sabha itself from amongst its members. He is elected after the election of the Speaker has taken place. **The date of election of the Deputy Speaker is fixed by the Speaker.** Whenever the office of the Deputy Speaker falls vacant, the Lok Sabha elects another member to fill the vacancy.

Upto the 10th Lok Sabha, both the Speaker and the Deputy Speaker were usually from the ruling party. **Since the 11th Lok Sabha, there has been a consensus that the Speaker comes from the ruling party (or ruling alliance) and the post of Deputy Speaker goes to the main opposition party.**

LakshmiKant

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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
 (b)

Explanation: Rice cultivation in India release good amount of Methane due to anaerobic respiration and uses good amount of urea too.

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22. “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

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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**

(d)

Explanation: SRI System is Input based system, which talks about reduction in INPUT and green house gases.

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23. 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

(b)

Explanation: If u know about L. Victoria and Volta both have good water, even if u learn mapping u know L. oguta in nigeria has water than through elimination u easily land to the answer.

Aspire MAPPING MODULE.

One example of increasing aridity in Mali appears in Lake Faguibine. Lying at the end of a series of basins watered by the Niger River when it floods, Lake Faguibine has experienced widely fluctuating water levels since the turn of the twentieth century but, at its fullest, has ranked among the largest lakes in West Africa. In 1974, this lake covered roughly 590 square kilometers (230 square miles). Starting in the late 1980s, a drop in precipitation steadily dried the lake. By the late 1990s, the traditional livelihoods of fishing, agriculture, and livestock herding became impractical. Even though normal rainfall resumed after the year 2000, the lake remained nearly dry.



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MARKS OBTAINED		MARKS
GENERAL STUDIES - I (PAPER-III)	124	124
GENERAL STUDIES - II (PAPER-III)	124	124
GENERAL STUDIES - IV (PAPER-IV)	124	124
GENERAL STUDIES - V (PAPER-V)	124	124
OPTIONAL (HISTORY & ACCIDENTANCY)	124	124
OPTIONAL (HISTORY & ACCIDENTANCY)	124	124
OPTIONAL (HISTORY & ACCIDENTANCY)	124	124
PERSONALITY TEST	124	124
TOTAL	124	124

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24. Gandikota canyon of South India was created by which one of the following rivers ?

- (a) Cauvery
 - (b) Manjira
 - (c) Pennar
 - (d) Tungabhadra
- (c)

Explanation:

Canyon can be formed in semiarid location and the location of river rejuvenation. So only river Pennar is flowing in that condition which forms canyon in eastern ghats Andhra region.

Source: Aspire MAPPING CLASS

25. Consider the following pairs Peak Mountains

1. Namcha Barwa - Garhwal Himalaya
2. Nanda Devi – Kumaon Himalaya
3. 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

(b)

Explanation: Namcha Barwa is the part of Tibet region. Nokrek is in Meghalaya plateau.

Aspire IAS MAPPING CLASS

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

(a)

Levant is an imprecisely defined **region** in the Middle East south of the Taurus Mountains, bounded by the Mediterranean Sea on the west and corresponding to modern-day Israel, Jordan, Lebanon, Syria, and certain adjacent areas.

Source: Aspire IAS mapping and Newspaper analysis class

27. Consider the following countries :

1. Azerbaijan
2. Kyrgyzstan
3. Tajikistan
4. Turkmenistan
5. Uzbekistan

Which of the above have borders with Afghanistan ?

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- (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

(c)

Explanation: Ajerbaijan has border with Caspian sea and Afghanistan is a land locked nation.

Aspire IAS mapping module

28. With reference to India, consider the following statements :

1. Monazite is a source of rare earths.
2. Monazite contains thorium.
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

(b)

Explanation: The entire coastal belt is not homogenously marked by same rock system therefore availability of Monazite is impossible. Even its largest concentration is over Kerala and Orissa coast.

Aspire IAS Mapping economic mapping

29. 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

(b)

summer solstice 21/22 June in northern hemisphere due to tiltation of the EARTH.

Aspire ias Mapping module

30. 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

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(b)

HOKERA WETLAND- JAMMU AND KASHMIR**RENUKA WETLAND- HIMACHAL PRADESH****RUDRASAGAR LAKE- TRIPURA****SASTHAMKOTTA LAKE- KERALA****Aspire IAS SANJEEVENI GS CRASH COURSE****31. Consider the following :**

1. Aarogya Setu
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
 (c)

Open source products are oftentimes part of the free software movement FOSS. An open source platform is any platform that allows access to its source code to any other users or developers.

Aspire IAS IYB MODULE**32. 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
 (d)

Web 3.0 is the next version of the internet, where services will run on blockchain. It is a decentralised internet that runs on a public blockchain, which is also used for cryptocurrency transactions. Three key features of Web 3.0 are: Ubiquity, Semantic Web, Artificial Intelligence and 3D Graphics.

Aspire IAS 2022 NEWSPAPER MODULE**33. 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

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- (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. Common examples are email, calendaring and office tools (such as Microsoft Office 365).

It is similar to FOSS

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MARKS OBTAINED		MARKS
SUBJECTS		
ESSAY (PAPER-I)		25
GENERAL STUDIES - I (PAPER-II)		125
GENERAL STUDIES - II (PAPER-III)		100
GENERAL STUDIES - III (PAPER-IV)		100
GENERAL STUDIES - IV (PAPER-V)		100
OPTIONAL - I (COMMERCE & ACCOUNTANCY) (PAPER-VI)		100
OPTIONAL - II (COMMERCE & ACCOUNTANCY) (PAPER-VII)		100
WRITTEN TOTAL		445
PERSONALITY TEST		55
FINAL TOTAL		500

34. 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.'

(c)
 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 deorbits through a retrograde engine burn. The idea behind FOBS is, a warhead is put into a stable orbit and it deorbits over the target.

Source: <https://www.financialexpress.com/defence/chinas-fractional-orbital-bombardment-system-impact-on-indias-nuclear-deterrence-posture/2356471/>

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35. 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

(b)
<https://www.aspireias.com/current-affairs-news-analysis-editorials/Quantum-Technology-in-India>

Aspire IAS Sanjeevani NOTES

36. 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.

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.

Aspire IAS science module SANJEEVENI GS crash course.

37. 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**

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(d)

Biofilm is an association of micro-organisms in which microbial cells adhere to each other on living or non-living surfaces within a self-produced matrix of extracellular polymeric substance. Biofilm formation is a multi-step process starting with attachment to a surface then formation of micro-colony that leads to the formation of three dimensional structure and finally ending with maturation followed by detachment.

Aspire IAS science SANJEEVENI GS crash course

38. 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

Probiotics are foods that are made up of good live bacteria or yeasts that naturally stay in the human body. Human body is a host to good and bad bacteria. Whenever one gets an infection, there are more bacteria that is bad.

Probiotic microbes are a combination of:

1. Bacteria.
2. Fungi (including yeasts)
3. Viruses
4. Protozoa

Aspire IAS 2021 NEWSPAPER analysis class

39. 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
 (b)

COVISHIELD vaccine is based on the platform which uses a recombinant, replication-deficient chimpanzee adenovirus vector encoding the SARS-CoV-2 Spike (S) glycoprotein.

Aspire IAS 2022 newspaper MODULE DEC month THE HINDU

GS-1 Prelims Exam 2022

40. 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.

(c)

Tsunami and its relation is with TECTONIC vertical activities and not of SOLAR flares. If a candidate can eliminate 2nd option we can get the answer easily.

Aspire IAS Sanjeevani NOTES

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
 (a)

The Climate Action Tracker is an independent scientific analysis that tracks government climate action and measures it against the globally agreed Paris Agreement aim of "holding warming well below 2°C, and pursuing efforts to limit warming to 1.5°C." A collaboration of two organisations, Climate Analytics and NewClimate Institute, the CAT has been providing this independent analysis to policymakers since 2009.

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**

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(c) 2, 3 and 5 only

(d) 1, 2, 3, 4 and 5

(b)

CLIMATE GROUP IS an international non-profit founded in 2003, with offices in London, New York, New Delhi, Amsterdam and Beijing. Their mission is to drive climate action. Fast. This group builds and run networks. EP100 is a global initiative led by the international non-profit Climate Group, bringing together over 120 energy smart businesses committed to measuring and reporting on energy efficiency improvements. Statement 2 is incorrect.

Mahindra and Mahindra became the first Indian company to join the EP100 initiative. Climate Group is the Secretariat to the Under2 Coalition and works with governments to accelerate climate action through four work streams:

Pathways

Policy action

Transparency

Diplomacy

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 statements?

(a). The water cycle in wetlands involves surface runoff, subsoil percolation and evaporation.

(b). Algae from 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.

(a)

Kidney means filtration therefore option A is best suited in this dimension.

Aspire IAS Sanjeevani NOTES

44. In the context of In WHO Air Quality Guidelines, consider the following statements:

1. The 24-hour mean of PM_{2.5} should not exceed 15 µg/m³ and annual mean of PM_{2.5} should not exceed 5 µg/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

(b)

The updated guidelines state that annual average concentrations of PM_{2.5} should not exceed 5 µg/m³, while 24-hour average exposures should not exceed 15 µg/m³

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The highest levels of ozone pollution occur during periods of sunny weather.

Long-term exposure to ozone is linked to aggravation of asthma, and is likely to be one of many causes of asthma development. Studies in locations with elevated concentrations also report associations of ozone with deaths from respiratory causes.

[https://www.who.int/news-room/fact-sheets/detail/ambient-\(outdoor\)-air-quality-and-health](https://www.who.int/news-room/fact-sheets/detail/ambient-(outdoor)-air-quality-and-health)

Aspire IAS NEWSPAPER ANALYSIS NOTES

45. With reference to "Guchhi" 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
 (c)

Explanation:

Guchhi mushroom is a species of fungus

Source: <https://indianexpress.com/article/lifestyle/food-wine/guchhi-mushrooms-cost-health-benefits-6484874/>

Aspire IAS Newspaper MODULE

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 used to store any alcoholic 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
 (a)

They are often used in durable-press blends with other fibres such as rayon, wool, and cotton, reinforcing the inherent properties of those fibres while contributing to the ability state govt bans it and says its harmful

The burning of plastics releases toxic gases like dioxins, furans, mercury and polychlorinated biphenyls (better known as BCPs) into the atmosphere, and poses a threat to vegetation, and human and animal health.

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Aspire IAS Sanjeevani NOTES

47. Which of the following is not a bird?

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

(a)

mahseer—a large freshwater fish also called the tiger of the water and found only in the Cauvery river basin

The HINDU Aspire IAS Newspaper batch

48. Which of the following are nitrogen-fixing plants ?

1. Alfalfa
2. Amaranth
3. Chickpea
4. Clover
5. Purslane (Kulfa)
6. Spinach

Select the correct answer using the code given below :

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

Spinach is not a pulse therefore not suitable for NIROGEN FIXING.

Aspire IAS Environment MODULE

49. "Biorock technology" is talked about in which one of the following situations?

- (a) Restoration of damaged coral reefs
- (b) Development of building materials using plant residues
- (c) Identification of areas for exploration/extraction of shale gas
- (d) Providing salt licks for wild animals in forests/protected areas.

(a)

BIOROCK OR Mineral Accretion Technology is a coral reef restoration technology that utilizes low voltage electricity to improve the health and growth rates of corals and other marine organisms. The technology works by passing a small amount of electrical current through electrodes in the water.

<https://www.thehindu.com/sci-tech/science/india-begins-coral-restoration-in-gulf-of-kachchh/article30645770.ece>

Aspire IAS newspaper MODULE

50. The "Miyawaki method" is well known for the:

- (a) Promotion of commercial farming in arid and semi-arid areas
- (b) Development of gardens using genetically modified flora
- (c) Creation of mini forests in urban areas

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(d) Harvesting wind energy on coastal areas and on sea surfaces

(c)

The method involves planting two to four trees per square metre. Miyawaki forests grow in two to three years and are self-sustaining.

The HINDU EDITORIALS Aspire IAS NEWSPAPER analysis batch

51. In the Government of India Act 1919, the functions of Provincial Government were divided into “Reserved” and “Transferred” subjects. Which of the following were treated as “Reserved” subjects?

1. Administration of Justice
2. Local Self-Government
3. Land Revenue
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

(c)

Spectrum MODERN INDIA

Aspire IAS Sanjeevani NOTES

52. In medieval India, the term “Fanam” referred to:

- (a) Clothing
 (b) Coins
 (c) Ornaments
 (d) Weapons

(b)

***fanam* is defined in the “Indian epigraphical glossary” as it can be found on ancient inscriptions commonly written in Sanskrit, Prakrit or Dravidian languages**

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

(d)

BARINDRA KUMAR GHOSH- ANUSHILAN SAMITI

JOGESH CHANDRA CHATTERJEE- ANUSHILAN SAMITI

RASH BEHARI BOSE- GHADR PARTY

GS-1 Prelims Exam 2022

Aspire IAS History module Spectrum ModernIndia

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

(b)

A Constituent Assembly would consist of the members elected by the Lower House of the Indian Legislature and the representatives of the Princely States nominated by their rulers.

Aspire IAS History module Spectrum ModernIndia

55. With reference to Indian history, consider the following texts:

1. Nettipakarana
2. Parishishtaparvan
3. Avadanashataka
4. Trishashtilakshana Mahapurana

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

(b)

The **Avadnaataka** or "Century of Noble Deeds" is an anthology in Sanskrit of one hundred Buddhist legends, approximately dating to the same time as the Ashokavadana.

The **Parishishtaparvan** also known as the Sthaviravalicharitra is a 12th-century Sanskrit mahakavya by Hemachandra which details the histories of the earliest Jain teachers.

Mahapurana or **Trishashtilakshana Mahapurana** is a major Jain text composed largely by "Acharya" Jinasena during the rule of Rashtrakuta ruler Amoghavarsha and completed by his pupil Gunabhadra in the 9th century CE. Mahapurana consists of two parts. The first part is **Di Pur** written by "Acharya" Jinasena. The second part is Uttarapurana which is the section composed by Gunabhadra.

56. With reference to Indian History, consider the following pairs:

Historical person Known as

1. Aryadeva — Jaina scholar
2. Dignaga — Buddhist scholar

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3. 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

(c)

<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

(b)

Chengez Khan invaded India during the reign of Iltumish for the first time. He was the founder and first Great Khan of the Mongol Empire. NCERT INFO.

During the reign of Ala-ud-din Khalji, one of the Mongol invasion reached till the outskirts of Delhi city and besieged it.

Muhammad-bin-Tughlaq defeated the Mongols and he had not lost any of the portions of his kingdom to them.

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

(d)

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 of general slaughter. The sayyids put on a pointed cap (kulah) and they were known as ‘Kulah Daran’ during Delhi sultanate.

59. With reference to Indian history, consider the following statements:

1. The Dutch established their factories/werehouses on the east coast on lands granted to them by Gajapati rulers.
2. Alfonso de Albuquerque captured Goa from the Bijapur Sultanate.

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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

(b)

Next to the Portuguese, the Dutch set their feet in India.

NCERT INFO

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. If 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 only
(b) 2 and 3 only
 (c) 1 and 3 only
 (d) 1, 2 and 3

(b)

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 (ECBs).
3. Devaluation of domestic currency decreases the currency risk associated with ECBs.

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

(a)

Capital Risk associated with capital flight: Devaluation of domestic currency will increase the risk with external commercial borrowings. It will increase the liability of domestic firms in terms of domestic currency.

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

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- (b) Only two States
- (c) Only three States
- (d) All four States

(d)

Tea cultivation need well drain soil acidic in nature and high tem and rainfall. So all of the above is the answer.

Aspire IAS MAPPING MODULE

63. Consider the following statements :

1. In India, credit rating agencies are regulated by 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

(b)

Credit Rating Agencies (CRA) analyze a debtor's ability to repay the debt and also rate their credit risk. 1 statement is wrong automatically ans comes.

Aspire IAS Sanjeevani NOTES

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 for 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

(b)

It is not mandated that the Governor of RBI will be the chairman of Bank Board Bureau (BBB).

Aspire IAS Sanjeevani NOTES

65. With reference to Convertible Bonds, consider pin 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 ?

- (a) 1 only
- (b) 2 only

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(c) Both 1 and 2

(d) Neither 1 nor 2

(c)

Convertible bonds are hybrid securities that offer investors the best of both stocks and bonds. Like any other kind of bond, they provide a guaranteed income stream and pay back the amount you originally lent the company. Convertible bonds typically carry lower interest rates payments than straight corporate bonds—the savings in interest expense can be significant. Investors accept the lower interest payments because the conversion option offers the opportunity to benefit from increases in the stock price.

Aspire IAS Sanjeevani NOTES

66. Consider the following:

1. Asian Infrastructure Investment Bank
2. Missile Technology Control Regime
3. Shanghai Cooperation Organisation

India is a member of which of the above ?

(a) 1 and 2 only

(b) 3 only

(c) 2 and 3 only

(d) 1, 2 and 3

(d)

Aspire IAS newspaper analysis NOTES

67. Consider the following statements :

1. Vietnam has been one of the fastest growing economies in the world in the 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, 3 and 4

(d) 1 and 2

(c)

Vietnam has socialistic republic with one party system.

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

GS-1 Prelims Exam 2022

(d) Reserve Bank of India

(d)

Reserve bank OF India is responsible for maintaining price stability and controlling inflation through monetary policy committee.

Aspire IAS Sanjeevani NOTES

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

(d)

NFTs typically contain references to digital files such as photos, videos, and audio. Because NFTs are uniquely identifiable, they differ from cryptocurrencies, which are fungible. The market value of an NFT is associated with the digital file it references. Non-fungible tokens (NFTs) are cryptographic assets on a blockchain with unique identification codes and metadata that distinguish them from each other. Unlike cryptocurrencies, they cannot be traded or exchanged at equivalency. This differs from fungible tokens like cryptocurrencies, which are identical to each other and, therefore, can serve as a medium for commercial transactions.

Aspire IAS NEWSPAPER ANALYSIS NOTES

70. Consider the following pairs:

Reservoirs States

1. Ghataprabha – Telangana
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

(a)

- Ghataprabha- Karnataka
- Gandhi Sagar- Madhya Pradesh
- Indira Sagar – Madhya Pradesh
- Maithon- Jharkhand

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71. In India, which one of the following compiles information on industrial disputes, closures, retrenchments and lay-offs in factories employing worker?

- (a) Central Statistics Office
- (b) Department for Promotion of Industry and Internal Trade
- (c) Labour Bureau**
- (d) National Technical Manpower Information System

(c)

Labour Bureau has been bringing out Statistics on ?Industrial Disputes, Closures, Retrenchments and Lay-offs in India? based on the voluntary returns received every month from the Labour Departments of the States and Union Territories and the Regional Labour Commissioners

labourbureaunew.gov.in

Aspire IAS Sanjeevani NOTES

72. In India, what is the role of the Coal Controller's Organization (CCO) ?

1. CCO is the major source of Coal Statistics in Government of India.
2. It monitors progress of development of Captive Coal/Lignite blocks.
3. It hears any objection to the Government's notification relating to acquisition of coal-bearing areas.
4. It ensures that coal mining companies deliver the coal to end users in the prescribed time.

Select the correct answer using the code given below:

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

(a)

Coal Controller has been made the statistical authority with respect to coal and lignite statistics. Entrusted with the responsibility of carrying out Annual Coal & Lignite survey and publishing of Provisional Coal Statistics and Coal Directory of India.

coalcontroller.gov.in

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.

(a)

Land-Money land and natural resources are purely controlled under 5th schedule area by the tribals.

Laxmikanth

Aspire IAS Sanjeevani NOTES

74. Consider the following statements:

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1. The India Sanitation Coalition is a platform to promote sustainable sanitation and is funded by the Government of India and the World Health Organization.
2. The National Institute of Urban Affairs is an apex body of the Ministry of Housing and Urban Affairs 'in Government of India and provides innovative solutions to address the challenges of Urban India.

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)**

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. The National Institute of Urban Affairs (NIUA) is India's leading national think tank on urban planning and development. As a hub for generation and dissemination of cutting-edge research in the urban sector, NIUA seeks to provide innovative solutions to address the challenges of a fast urbanising India. It is against this backdrop that in 1976, NIUA was appointed as an apex body to support and guide the Government of India in its urban development plans. Since then, it has worked closely with the Ministry of Housing and Urban Affairs, alongside other government and civil sectors, to identify key areas of research, and address the lacunae in urban policy and planning.

75. 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
- (c)**

Aspire IAS Sanjeevani NOTES

76. With reference to the "United Nations Credentials Committee", consider the following statements:

1. It is a committee set up by the UN Security Council and works under its supervision.
2. It traditionally meets in March, June and September every year.
3. It assesses the credentials of all UN members before submitting a report to the General Assembly for approval.

Which of the statements given above is/are correct?

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

www.un.org

GS-1 Prelims Exam 2022

77. Which one 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 South Pole.
 (d) It is a trade and security agreement of the member countries of the Arctic Council.

(a)

Polar Code is International Code for Ships Operating in Polar Waters. The Polar Code covers the full range of design, construction, equipment, operational, training, search and rescue and environmental protection matters relevant to ships operating in the inhospitable waters surrounding the two poles

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 Observers in the UN 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

(d)

www.ask.un.org

Aspire IAS Sanjeeveni NOTES

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) and 4
 (d) 1 and 4

(d)

The Tea Board of India is an autonomous and statutory body created under the Tea Act, 1953 Headquarters is in Kolkata. Offices are located in Kolkata, London, Moscow and Dubai

Aspire IAS Sanjeeveni NOTES

80. Which one of the following best describes the term "greenwashing" ?

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(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 disastrous ecological consequences while undertaking infrastructure development

(d) Making mandatory provisions for environmental costs in a government project/programme

(a)

Greenwashing is the process of conveying a false impression or providing misleading information about how a company's products are more environmentally sound. Greenwashing is considered an unsubstantiated claim to deceive consumers into believing that a company's products are environmentally friendly.

Aspire IAS Newspaper analysis NOTES

81. Consider the following statements :

1. 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

(d)

High clouds cirrus are often thin and do not reflect very much. Therefore they trap the energy. Low clouds are often quite thick and reflect lots of sunlight back to space. Low clouds are excellent reflectors.

Aspire IAS Sanjeevani NOTES

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

(c)

Bidibidi Refugee Settlement is a refugee camp in northwestern Uganda.

83. Consider the following countries

1. Armenia
2. Azerbaijan
3. Croatia

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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
- (c)**

The Organization of Turkic States, formerly called the Turkic Council or the Cooperation Council of Turkic Speaking States, is an international organization comprising prominent independent Turkic countries: Azerbaijan, Kazakhstan, Kyrgyzstan, Turkey and Uzbekistan.

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
- (b)**

India's Bhadla Solar Park in Rajasthan is the largest solar power park in the world. Kerala's Cochin International Airport Ltd (CIAL) is the first airport in the world that would be running fully on solar power. Floating solar is in AP.

Aspire IAS NEWSPAPER ANALYSIS NOTES

85. 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 is measured.

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**
- (d)**

Aspire IAS Newspaper Analysis NOTES

GS-1 Prelims Exam 2022

86. 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.

(b)

Japan and China claim the uninhabited islands, known as the Senkaku in Japan and Tiaoyu in China, as their own, but Japan has administered them since 1972. The Senkaku/Diaoyu Islands were formally claimed by Japan in 1895. After Japan's defeat in World War II, the island chain was controlled by the US until 1971 before its return. Since then, Japan has administered the island chains. China began to reassert claims over the Senkaku/Diaoyu Islands in the 1970s, citing historic rights to the area. However, Japan does not recognise Chinese claims. More recently, there has been a flare up in the region. The Japanese government said on Thursday it had protested to China regarding a set of names recently assigned by Beijing to seabed zones in the East China Sea, including the Senkaku/Diaoyu islands.

Aspire IAS Newspaper Analysis NOTES

87. Consider the following pairs

<i>Country</i>	<i>Important reason for being in the news recently</i>
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

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(c)

The president of Guinea was detained after a successful military coup in the West African nation. The coup was reportedly led by special task forces led by Colonel Mamady Doumbouya, the head of Guinean Special Forces.

Lebanon's economy collapsed after it defaulted on about \$31 billion of Eurobonds in March 2020, with its currency sinking more than 90 per cent against the US dollar on the black market. Political bickering and indecision by the previous parliament forced the economy into a tailspin.

Inflation in the country has continued to surge and reached 206 per cent in April as the country elected a new parliament, which will have to put in place reforms to secure \$3bn from the International Monetary Fund.

Lebanon's economy contracted about 58 per cent between 2019 and 2021, with gross domestic product plummeting to \$21.8bn in 2021, from about \$52bn in 2019, said the World Bank.

The depression is among the world's worst economic collapses since the 1850s, the Washington lender said in January. It is the largest contraction on a list of 193 countries.

Tunisia's President Kais Saied on Monday extended his months-long suspension of parliament until new elections in December 2022, while calling for a July referendum on constitutional reforms.

Aspire IAS Newspaper Analysis NOTES

88. Consider the following pairs :

Region often *Country*
mentioned, in the news

- | | |
|-----------------|------------|
| 1. Anatolia | - Turkey |
| 2. Amhara | - Ethiopia |
| 3. Cabo Delgado | - Spain |
| 4. Catalonia | - Italy |

How many pairs given above are .correctly matched?

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

(b)

Cabo Delgado is a region in Mozambique and Catalonia is a region of Spain.

Aspire IAS Mapping module

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 for 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

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(c) 1 and 3

(d) 3 only

(a)

In a significant verdict, the Bombay High Court has ruled that wild animals including tiger should be treated as "government property for all purposes" and any damage caused by them should be compensated by the Government. The law governing the subject of wildlife, the Wildlife (Protection) Act, 1972, does not discriminate between animals found in protected areas and outside. It provides for equal protection for wild animals irrespective of where they are found.

Only if the wild animal becomes a danger to human life or is diseased or disabled beyond recovery can it be allowed to be captured or killed by the competent authority, the Chief Wildlife Warden of the State. This provision is applicable to wild animals listed in Schedule I of the Wildlife (Protection) Act, 1972, which includes leopards. **Mere apprehension or fear that a wild animal could endanger human life is not a ground for capture or killing.**

Aspire IAS Sanjeevani NOTES

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

(a)

Fungi and insects are two hyperdiverse groups of organisms that have interacted for millennia. Over time, some insects have come to rely on fungi for a variety of resources, including room and board. Ants, wasps, beetles and a variety of other insects have adapted to using fungi primarily for reinforcing structures or as sources of food, with the most extreme examples resulting in cultivation of fungal crops. Chief among these examples are the mushroom-farming ants and termites, and the wood-boring beetles and wasps.

Aspire IAS Sanjeevani NOTES

91. Consider the following pairs :

<i>Site of Ashoka's major rock edicts</i>	<i>Location the of</i>	<i>in State</i>
---	--------------------------------	---------------------

- | | |
|-------------|------------------|
| 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

GS-1 Prelims Exam 2022

(b)

Dhuli is located in Odisha.

Erragudi or Yerragudi is located in Andhra Pradesh

Jaugada is located in Odisha.

Kalsi is located in Uttarakhand.

92. 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

(b)

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.

(b)

Sangam Literature has references to material culture and war tactics and ethics. The varna system was not practiced but it was known.

94. "Yogavasistha" was translated into Persian by Nizamuddin Panipati during the reign of:

(a) Akbar

(b) Humayun

(c) Shahjahan

(d) Aurangzeb

(a)

YogaVasistha was translated into Persian multiple times throughout the Mughal Dynasty, as commanded by Akbar, Jahangir, and Dara Shikoh. Nizam al-Din Panipati completed one of these translations, known as the Jug-Basisth, in the late sixteenth century AD.

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.

GS-1 Prelims Exam 2022

(c) Logical arguments were essential means for the highest bliss.

(d) Salvation was to be obtained through meditation.

(a)

Ramanuja

He was born in Tamil Nadu in the eleventh century. He was deeply influenced by the Alvars. **He firmly believed that intense devotion to Vishnu was the best means to attain salvation.** He propounded the doctrine of Vishishtadvaita.

Vishishtadvaita is formed by the two words: vishisht meaning qualified and advaita meaning oneness of the individual soul and the Supreme God. In other words it means qualified oneness wherein the soul, even when united with the Supreme God, remained distinct.

The new strand of bhakti that developed in north India subsequently was greatly inspired by Ramanujam's doctrine.

Aspire IAS Newspaper analysis NOTES

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

(a)

Somnath Temple at Somnath, Gujrat is one of the most sacred pilgrimage sites for Hindus and is believed to be first among the twelve Jyotirlinga shrines of Shiva.

Ancient Indian traditions maintain a close relationship of Somnath with release of Chandra (Moon God) from the curse of his father-in-law Daksha Prajapati. Moon was married to Twenty-Seven daughters of Daksha. However, he favoured Rohini and neglected other queens. The aggrieved Daksha cursed Moon and the Moon lost power of light. With the advice of Prajapita Brahma, Moon arrived at the Prabhas Teerth and worshipped Bhagvan Shiva. Pleased with the great penance and devotion of Moon, Bhagvan Shiva blessed him and relieved him from the curse of darkness. Pauranic traditions maintain that Moon had built a golden temple, followed by a silver temple by Ravana, Bhagvan Shree Krishna is believed to have built Somnath temple with Sandalwood.

The later sources of history account for several desecrations by Muslims invaders during eleventh to eighteen century A.D. The temple was rebuilt every time with the reconstructive spirit of the people. The modern temple was reconstructed with the resolve of Sardar Patel who visited the ruins of Somnath temple on November 13 1947. Then President of India, Dr. Rajendra Prasad, did the Pran-Pratistha at the existing temple on 11 May 1951.

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

- (a) They protect the body from environmental allergens.
- (b) They alleviate the body's pain and inflammation.
- (c) They act as immunosuppressants in the body.
- (d) They protect the body from the diseases caused by pathogens.**

(d)

pTreg cells generation is influenced by a specific type of TCR signaling, and costimulation, and through cooperation with other signals, such as TGF- β , IL-2, and ATRA. These conditions suggest that pTreg cell differentiation could be restricted to precise locations such as mucosal surfaces where they may regulate immune responses to harmless antigens such as commensal microbiota and prevent allergic inflammation. Supporting these ideas, "*studies using Rag-1-deficient T-B monoclonal mice sufficient or deficient in FOXP3 demonstrated that TCR transgenic pTreg cells were sufficient to establish mucosal tolerance and control allergic inflammation induced by the model antigen recognized by the TCR*"

98. Consider the following statements:

1. Other than those made by humans, nanoparticles do not exist in nature.
2. Nanoparticles of some metallic oxides are used in the manufacture of some cosmetics.
3. Nanoparticles of some commercial products which enter the environment are unsafe for humans.

Which of the statements given above is/are correct?

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

(d)

Explanation: Natural nanoparticles are formed from magma spewing volcanoes; others are formed by forces such as of oceanic breakers, tides, river currents, etc. Among the metal oxide NPs present in cosmetic products, **amorphous silica (SiO₂), zinc oxide (ZnO) and particularly titanium dioxide (TiO₂)** are the most frequent. The thing that makes nanoparticles so interesting for applications is that materials in nanosize have properties (optical, chemical, magnetic, biological, electrical, and mechanical) that are completely different from the properties of the same material in bulk. These new properties may cause a problem if nanoparticles are unintentionally released – very few of these particles exist in nature and we as humans have not been exposed to them throughout evolution. Therefore, we cannot be sure that our body have developed defense mechanisms to deal with them.

An important consideration in the deposition of particles in the respiratory system is the lung-lining fluid (a complex mixture of lipids and surfactant proteins) since any depositing material quickly becomes coated in these surfactant proteins and lipids. Such a coating gives the deposited particle its 'biological identity' This so-called protein corona, which is likely to play a role in the way particles interact with lung cells such as alveolar macrophages.

Several studies on workers exposed to carbon nanotubes have shown a significant increase of biomarkers of fibrosis. The organization for cancer research (IARC) of the World Health

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Organization (WHO) have classified one type of carbon nanotubes (Mitsui 7) as potentially carcinogenic in humans [IARC 111].

Aspire IAS Sanjeevani NOTES

99. 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

(d)

To measure the age of plant and animal remains from the more recent past, scientists use a radioactive isotope of carbon, called carbon-14, as their clock. As carbon-14 decays, with a half-life of about 5,730 years, it becomes nitrogen-14. Using this clock, they have dated bones, campfires and other objects as old as 60,000 years, and in some cases even older.

DNA barcoding uses specific regions of DNA in order to identify species. Initiatives are taking place around the world to generate DNA barcodes for all groups of living organisms and to make these data publically available in order to help understand, conserve, and utilize the world's biodiversity. For land plants the core DNA barcode markers are two sections of coding regions within the chloroplast, part of the genes, *rbcL* and *matK*. In order to create high quality databases, each plant that is DNA barcoded needs to have a herbarium voucher that accompanies the *rbcL* and *matK* DNA sequences. The quality of the DNA sequences, the primers used, and trace files should also be accessible to users of the data. Multiple individuals should be DNA barcoded for each species in order to check for errors and allow for intraspecific variation. The world's herbaria provide a rich resource of already preserved and identified material and these can be used for DNA barcoding as well as by collecting fresh samples from the wild. These protocols describe the whole DNA barcoding process, from the collection of plant material from the wild or from the herbarium, how to extract and amplify the DNA, and how to check the quality of the data after sequencing.

100. 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

(b)

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Acid rain results when sulfur dioxide (SO₂) and nitrogen oxides (NO_x) are emitted into the atmosphere and transported by wind and air currents. The SO₂ and NO_x react with water, oxygen and other chemicals to form sulfuric and nitric acids. These then mix with water and other materials before falling to the ground.

While a small portion of the SO₂ and NO_x that cause acid rain is from natural sources such as volcanoes, most of it comes from the burning of fossil fuels. The major sources of SO₂ and NO_x in the atmosphere are:

- Burning of fossil fuels to generate electricity. Two thirds of SO₂ and one fourth of NO_x in the atmosphere come from electric power generators.
- Vehicles and heavy equipment.
- Manufacturing, oil refineries and other industries.

Winds can blow SO₂ and NO_x over long distances and across borders making acid rain a problem for everyone and not just those who live close to these sources.

Aspire IAS Sanjeevani NOTES

UPSC Prelims CUTOFF

Category	2020	2019	2018	2017	2016	2015
General	92.51	98	98.00	105.34	116.00	107.34
SC	74.84	82	84.00	88.66	99.34	94
ST	68.71	77.34	83.34	88.66	96.00	91.34
OBC	89.12	95.34	96.66	102.66	110.66	106
PwD 1	70.06	53.34	73.34	85.34	75.34	90.66
PwD 2	63.94	44.66	53.34	61.34	72.66	76.66
PwD 3	40.82	61.34	40.00	40.00	40.00	40

GS-1 Prelims Exam 2022

PwD 5	42.86	61.34	45.34	-	-	-
EWS	77.55	90	-	-	-	-

UPSC Cut Off 2021: Category-wise Minimum Qualifying Marks

Exam	General	EWS	OBC	SC	ST	PwBD-1	PwBD-2	PwBD-3	PwBD-5
CS (Prelim)	87.54	80.14	84.85	75.41	70.71	68.02	67.33	43.09	45.80
CS (Main)	745	713	707	700	700	668	712	388	560
CS (Final)	953	916	910	886	883	892	932	689	701

Probable cut-offs:

This year many factors can play ITS ROLE:

1. More vacancies available
2. Paper is easier than previous one
3. More conceptual questions and current issues of last 2.5 years
4. Same standard of lengthy CSAT paper

Under all the above mentioned conditions the probable cut offs

General: 96-100

EWS: 89-92

obc: 96-98

SC: 86-88

ST: 79-82

UPSC Prelims Subject wise trend analysis:

GS-1 Prelims Exam 2022

	Current Affairs	History	Geography	Polity	Economy	Science & Technology	Environment
2021	27	20	10	14	10	08	11
2020	18	20	10	17	15	10	10
2019	22	17	14	15	14	7	11
2018	14	22	10	13	18	10	13
2017	15	14	9	22	16	9	15
2016	27	15	7	7	18	8	18
2015	22	17	16	13	13	8	11
2014	8	20	14	14	10	16	18
2013	0	16	18	16	19	14	17
2012	1	19	17	20	17	9	17
2011	13	11	11	12	19	19	15
2022	14	16	10	12	22	11	15

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JAI Hind

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MarkSheet

MARKS OBTAINED	
SUBJECTS	MARKS
ESSAY (PAPER-I)	117
GENERAL STUDIES - I (PAPER-II)	124
GENERAL STUDIES - II (PAPER-III)	90
GENERAL STUDIES - III (PAPER-IV)	114
GENERAL STUDIES - IV (PAPER-V)	104
OPTIONAL - I (COMMERCE & ACCOUNTANCY) (PAPER-VI)	100
OPTIONAL - II (COMMERCE & ACCOUNTANCY) (PAPER-VII)	100
WRITTEN TOTAL	845
PERSONALITY TEST	171
FINAL TOTAL	1016

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