

1989601

परीक्षण पुस्तिका



सामान्य अध्ययन

प्रश्न-पत्र - I

समय : दो घण्टे

पूर्णांक : 200

अनुदेश

1. परीक्षा प्रारम्भ होने के तुरन्त बाद, आप इस परीक्षण पुस्तिका की पड़ताल अवश्य कर लें कि इसमें कोई बिना छपा, फटा या छूटा हुआ पृष्ठ अथवा प्रश्नांश आदि न हो। यदि ऐसा है, तो इसे सही परीक्षण पुस्तिका से बदल लें।
2. कृपया ध्यान रखें कि OMR उत्तर-पत्रक में उचित स्थान पर रोल नम्बर और परीक्षण पुस्तिका अनुक्रम A, B, C या D को ध्यान से एवं बिना किसी चूक या विसंगति के भरने और कूटबद्ध करने की जिम्मेदारी उम्मीदवार की है। किसी भी प्रकार की चूक/विसंगति की स्थिति में उत्तर-पत्रक निरस्त कर दिया जाएगा।
3. इस परीक्षण पुस्तिका पर साथ में दिए गए कोष्ठक में आपको अपना अनुक्रमांक लिखना है। परीक्षण पुस्तिका पर **और कुछ न** लिखें।
4. इस परीक्षण पुस्तिका में 100 प्रश्नांश (प्रश्न) दिए गए हैं। प्रत्येक प्रश्नांश हिन्दी और अंग्रेज़ी दोनों में छपा है। प्रत्येक प्रश्नांश में चार प्रत्युत्तर (उत्तर) दिए गए हैं। इनमें से एक प्रत्युत्तर को चुन लें, जिसे आप उत्तर-पत्रक पर अंकित करना चाहते हैं। यदि आपको ऐसा लगे कि एक से अधिक प्रत्युत्तर सही हैं, तो उस प्रत्युत्तर को अंकित करें जो आपको सर्वोत्तम लगे। प्रत्येक प्रश्नांश के लिए **केवल एक ही** प्रत्युत्तर चुनना है।
5. आपको अपने सभी प्रत्युत्तर अलग से दिए गए उत्तर-पत्रक पर **ही** अंकित करने हैं। उत्तर-पत्रक में दिए गए निर्देश देखिए।
6. **सभी** प्रश्नांशों के अंक समान हैं।
7. इससे पहले कि आप परीक्षण पुस्तिका के विभिन्न प्रश्नांशों के प्रत्युत्तर उत्तर-पत्रक पर अंकित करना शुरू करें, आपको प्रवेश प्रमाण-पत्र के साथ प्रेषित अनुदेशों के अनुसार कुछ विवरण उत्तर-पत्रक में देने हैं।
8. आप अपने सभी प्रत्युत्तरों को उत्तर-पत्रक में भरने के बाद तथा परीक्षा के समापन पर **केवल उत्तर-पत्रक** अधीक्षक को सौंप दें। आपको अपने साथ परीक्षण पुस्तिका ले जाने की अनुमति है।
9. कच्चे काम के लिए पत्रक, परीक्षण पुस्तिका के अंत में संलग्न हैं।
10. ग़लत उत्तरों के लिए दंड :

सभी प्रश्नों में उम्मीदवार द्वारा दिए गए ग़लत उत्तरों के लिए दंड दिया जाएगा।

- (i) प्रत्येक प्रश्न के लिए चार वैकल्पिक उत्तर हैं। उम्मीदवार द्वारा प्रत्येक प्रश्न के लिए दिए गए एक ग़लत उत्तर के लिए प्रश्न हेतु नियत किए गए अंकों का एक-तिहाई दंड के रूप में काटा जाएगा।
- (ii) यदि कोई उम्मीदवार एक से अधिक उत्तर देता है, तो इसे ग़लत उत्तर माना जाएगा, यद्यपि दिए गए उत्तरों में से एक उत्तर सही होता है, फिर भी उस प्रश्न के लिए उपर्युक्तानुसार ही उसी तरह का दंड दिया जाएगा।
- (iii) यदि उम्मीदवार द्वारा कोई प्रश्न हल नहीं किया जाता है, अर्थात् उम्मीदवार द्वारा उत्तर नहीं दिया जाता है, तो उस प्रश्न के लिए कोई दंड नहीं दिया जाएगा।

जब तक आपको यह परीक्षण पुस्तिका खोलने को न कहा जाए तब तक न खोलें

Note : English version of the instructions is printed on the back cover of this Booklet.



1. The draft UGC (2025) regulations proposing changes to Vice Chancellor (VC) appointments have been opposed by several Indian states. What is the primary concern of these states regarding the proposed changes?

- a) Reduction in the number of VCs appointed annually.
- b) Centralization of power, undermining state autonomy.
- c) Increased funding from the central government.
- d) Exclusion of private sector professionals from the selection committee.

2. Pink fire retardants used in combating California wildfires contain certain components that raise environmental concerns. Which of the following metals present in these retardants are particularly harmful to ecosystems?

- a) Iron and copper
- b) Chromium and cadmium
- c) Aluminum and lead
- d) Nickel and zinc

3. The Kumbh Mela is rooted in which Hindu mythological event?

- a) Ramayana's journey to Lanka
- b) Samudra Manthan (churning of the ocean)
- c) Krishna's lifting of Govardhan hill
- d) Shiva's dance of creation and destruction

4. Donald Trump's proposal to rename the Gulf of Mexico to the "Gulf of America" faced opposition primarily because:

- a) It contradicts historical maps and requires international consensus.
- b) It infringes on U.S. sovereignty.
- c) It was not supported by environmental groups.
- d) It would lead to increased tariffs.

5. What is the primary aim of the Genome India Project?

- a) To sequence the genomes of endangered species in India.
- b) To map the genetic diversity of India's population by sequencing up to one million human genomes.

c) To develop genetically modified crops for Indian agriculture.

d) To create a genetic database for forensic purposes.

6. What is a significant strategic benefit of India increasing its domestic urea production?

- a) Reducing dependency on imported fertilizers and enhancing self-reliance.
- b) Increasing the export of urea to neighboring countries.
- c) Diversifying into petrochemical industries.
- d) Developing bio-based fertilizers.

7. What is a key legal concern regarding the linkage of voter IDs (EPIC) with Aadhaar in India?

- a) Aadhaar does not verify citizenship, only residency.
- b) It would lead to increased costs for voters.
- c) It would make the voting process mandatory.
- d) It conflicts with the Right to Privacy established by the Supreme Court.

8. In the context of legal systems, how does 'blood money' (diya) in Islamic Sharia law differ from plea bargaining in the Indian legal system?

- a) Diya absolves the accused from all punishment, while plea bargaining reduces charges.
- b) Diya is mandatory in all criminal cases, whereas plea bargaining is voluntary.
- c) Diya can be negotiated outside the judicial system, while plea bargaining is court-supervised.
- d) Diya applies only to civil cases, while plea bargaining applies to criminal cases.

9. Why are plants grown in space essential for long-duration missions?

- a) They provide structural materials for spacecraft.
- b) They serve as a means of entertainment for astronauts.
- c) They offer fresh produce, recycle carbon dioxide into oxygen, and support psychological well-being.
- d) They are used for energy production through photosynthesis.





10. The recent draft rules for implementing the Digital Personal Data Protection Act, 2023 (DPDP Act) in India have been criticized for:

- a) Providing excessive details on user rights, complicating compliance for businesses.
- b) Lacking detailed guidelines necessary to protect user data effectively.
- c) Mandating the use of biometric data for all digital transactions.
- d) Allowing unrestricted data sharing with third-party entities.

11. Statement I: Recently in news "Nothing cyclical about it" attributes India's growth slowdown solely to global economic downturns.

Statement II: The argument is that India's growth slowdown reflects deeper structural challenges in governance, regulation, and capital allocation rather than being merely cyclical.

Which of the statements is/are correct?

- a) Only Statement I
- b) Only Statement II
- c) Both Statement I and II
- d) Neither Statement I nor II

12. Statement I: The flat-top sada in the Konkan region is primarily used for large-scale commercial mining operations.

Statement II: The sada plateaux in Konkan are freshwater paradises that support unique biodiversity and traditional agriculture practices.

Which of the statements is/are correct?

- a) Only Statement I
- b) Only Statement II
- c) Both Statement I and II
- d) Neither Statement I nor II

13. Statement I: Transforming masculinities is aimed at reinforcing traditional gender roles to reduce violence against women.

Statement II: Initiatives like UNESCO's "Transforming MENTalities" encourage men and boys to adopt values

based on empathy, equality, and shared responsibility to combat gender-based violence.

Which of the statements is/are correct?

- a) Only Statement I
- b) Only Statement II
- c) Both Statement I and II
- d) Neither Statement I nor II

14. Statement I: Plants grown in space are primarily used for biofuel production during long-duration missions.

Statement II: ISRO's CROPS module experiment successfully demonstrated the germination and early growth of lobia seeds in microgravity conditions.

Which of the statements is/are correct?

- a) Only Statement I
- b) Only Statement II
- c) Both Statement I and II
- d) Neither Statement I nor II

15. In Meghalaya, cultural beliefs such as "bih" and "skai" have led to:

- a) Increased use of modern medical treatments
- b) Delayed medical treatment for cancer patients
- c) Higher cancer survival rates
- d) Complete reliance on traditional healing methods

16. What is the significance of the newly commissioned Indian Navy ships INS Nilgiri, INS Surat, and INS Vaghsheer?

- a) They are the first Indian ships to be entirely imported
- b) They enhance India's maritime capabilities with indigenous technology and multi-dimensional strengths
- c) They are exclusively used for coastal patrol
- d) They focus solely on anti-piracy operations

17. What is one of the primary reasons for India's reliance on government capital spending to sustain economic growth?

- a) High private sector investment
- b) Strong household savings
- c) Weak private sector capital formation
- d) Robust foreign direct investment (FDI)





18. Which of the following is a key feature of the newly commissioned urea plant at Talcher, Odisha?

- a) Utilizes renewable energy exclusively
- b) Employs coal gasification technology as feedstock
- c) Produces bio-based fertilizers
- d) Is the largest urea plant in India

19. Which of the following historical legal systems is analogous to the concept of 'blood money' in Islamic Sharia law?

- a) Roman Law
- b) Brehon Law of Ancient Ireland
- c) Napoleonic Code
- d) Common Law of England

20. The Supreme Court of India has maintained that voting is a constitutional right forming part of the basic structure of the Constitution. This implies that:

- a) Voting can be restricted by any legislation
- b) Voting cannot be unduly constrained by legislation
- c) Voting is mandatory for all citizens
- d) Voting rights can be revoked by the government

21. Which of the following factors contributes to India experiencing lower warming compared to the global average?

- a) Proximity to the Arctic Circle
- b) High levels of cloud cover
- c) Aerosols in the atmosphere
- d) Extensive ice caps

22. The udaipur-like plateaux in Konkan are often mistaken for barren land. What ecological function do they primarily serve during the monsoon season?

- a) Hosting migratory birds
- b) Acting as flood barriers
- c) Transforming into lush, green landscapes
- d) Facilitating large-scale agriculture

23. In the context of Meghalaya's water retention, what role do traditional cultural practices play?

- a) They prioritize mining over water conservation
- b) They encourage the construction of artificial reservoirs
- c) They foster the preservation and maintenance of natural springs and water sources
- d) They promote the use of chemical fertilizers to enhance water retention

24. In the context of Meghalaya, what innovative technology is being used to demystify cancer treatment and reduce patient fears?

- a) Artificial Intelligence (AI) diagnostics
- b) Virtual Reality (VR) tools
- c) Genetic engineering
- d) Robotic surgery

25. Which of the following best describes the unique property of semi-Dirac fermions as discovered in zirconium silicon sulphide (ZrSiS)?

- a) They exhibit superconductivity at room temperature.
- b) They possess mass-like properties in one crystal direction and behave like massless particles in another.
- c) They can exist in both solid and liquid states simultaneously.
- d) They demonstrate perpetual motion without energy input.

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Answers with Explanations

1. **Answer: B)** Centralization of power, undermining state autonomy.

Explanation: States like Kerala, West Bengal, Karnataka, Maharashtra, and Tamil Nadu oppose the draft UGC regulations as they argue that giving Chancellors (usually state Governors) greater control over VC appointments reduces state autonomy and centralizes power, thereby undermining federalism and state rights.

2. **Answer: B)** Chromium and cadmium

Explanation: Pink fire retardants like Phos-Chek primarily contain ammonium phosphate and harmful metals like chromium and cadmium, which can damage ecosystems and pose health risks.

3. **Answer: B)** Samudra Manthan (churning of the ocean)

Explanation: The Kumbh Mela is based on the myth of Samudra Manthan, where drops of the elixir of immortality (amrit) fell at four locations, now the sites of the Kumbh Mela.

4. **Answer: A)** It contradicts historical maps and requires international consensus.

Explanation: Any formal name change of an internationally recognized water body like the Gulf of Mexico would require international consensus, making unilateral renaming highly unlikely and opposed by other nations, such as Mexico.

5. **Answer: B)** To map the genetic diversity of India's population by sequencing up to one million human genomes.

Explanation: The Genome India Project aims to map the genetic diversity of India's population by sequencing 10,000 human genomes in the first phase, and eventually up to one million.

6. **Answer: A)** Reducing dependency on imported fertilizers and enhancing self-reliance.

Explanation: The increase in domestic urea production aligns with the government's atma nirbhar (self-reliant) goals, reducing dependency on imports and ensuring a stable domestic supply.

7. **Answer: A)** Aadhaar does not verify citizenship, only residency.

Explanation: One concern is that Aadhaar proves residency, not citizenship, so it might not effectively remove non-citizen voters from the electoral rolls.

8. **Answer: C)** Diya can be negotiated outside the judicial system, while plea bargaining is court-supervised.

Explanation: 'Blood money' (diya) in Islamic Sharia can be negotiated between the parties, sometimes outside the formal legal system, whereas plea bargaining in India is supervised and limited by statutory provisions, not replacing criminal liability in serious offences.

9. **Answer: C)** They offer fresh produce, recycle carbon dioxide into oxygen, and support psychological well-being.

Explanation: Plants grown in space provide fresh produce rich in vitamins, help recycle carbon dioxide into oxygen, and offer psychological benefits to astronauts, making them vital for long-duration missions.

10. **Answer: B)** Lacking detailed guidelines necessary to protect user data effectively.

Explanation: The draft rules for the DPDP Act have been criticized for being vague and incomplete, failing to provide clear procedures and standards necessary for effective implementation. Key areas such as user rights





and protection of children's data remain inadequately addressed, raising concerns about the law's effectiveness in safeguarding personal data.

11. **Answer:** B) Only Statement II

Explanation:

Statement I: The phrase "Nothing cyclical about it" implies that India's growth slowdown is not solely due to global economic downturns, but rather points to structural issues. Therefore, Statement I is incorrect as it attributes the slowdown only to global factors, which is contrary to the intended argument.

Statement II: This correctly identifies that India's growth slowdown reflects deeper structural challenges in governance, regulation, and capital allocation, not merely cyclical factors. Hence, Statement II is correct.

12. **Answer:** B) Only Statement II

Explanation:

- Statement I is incorrect because, although there are threats from activities like laterite mining, the sada plateaux are not primarily used for large-scale commercial mining.
- Statement II is correct as the sada plateaux are freshwater paradises hosting unique biodiversity and supporting traditional agriculture practices with minimal chemical inputs.

13. **Answer:** B) Only Statement II

Explanation: Statement I is incorrect as transforming masculinities seeks to challenge, not reinforce, traditional roles. Statement II is correct, promoting empathy and equality to reduce gender-based violence.

14. **Answer:** B) Only Statement II

Explanation: Statement I is incorrect; plants in space are mainly for food, oxygen, and psychological benefits. Statement II is correct as ISRO's CROPS module successfully germinated lobia seeds in microgravity.

15. **Answer:** B) Delayed medical treatment for cancer patients

Explanation: Beliefs like "bih" (taint from a malicious person) and "skai" (evil eye) cause individuals in Meghalaya to attribute cancer to supernatural causes, delaying clinical treatment and worsening health outcomes.

16. **Answer:** B) They enhance India's maritime capabilities with indigenous technology and multi-dimensional strengths

Explanation: These ships are indigenously developed under the 'Make in India' initiative, providing advanced features like stealth, high-speed operations, and multi-mission capabilities, thereby significantly enhancing India's maritime strength.

17. **Answer:** C) Weak private sector capital formation

Explanation: India's growth remains heavily dependent on government capital spending and favorable monsoon conditions because private sector capital formation has been weak for almost a decade, limiting sustainable economic growth.

18. **Answer:** B) Employs coal gasification technology as feedstock

Explanation: The Talcher plant uniquely uses coal gasification technology as its feedstock, distinguishing it from other gas-based urea plants and leveraging domestic coal resources for fertilizer production.

19. **Answer:** B) Brehon Law of Ancient Ireland

Explanation: Brehon Law in Ancient Ireland had similar concepts like 'Éraic' (body price) and 'Wergeld' in Germanic tribes, where compensation was paid for homicide and grievous injuries, akin to 'blood money' in Sharia.

20. **Answer:** B) Voting cannot be unduly constrained by legislation

Explanation: The Supreme Court has upheld that voting is a fundamental right integral to the Constitution's basic structure, ensuring it cannot be unfairly restricted or undermined by legislative measures.





21. **Answer:** C) Aerosols in the atmosphere

Explanation: Aerosols such as dust and particulate matter in India's atmosphere scatter solar radiation, providing a slight cooling effect. This, along with its tropical location, contributes to India experiencing lower warming compared to the global average.

22. **Answer:** C) Transforming into lush, green landscapes

Explanation: During the monsoon season, the sada plateaux in Konkan, though mostly rocky, transform into verdant landscapes as they retain and utilize the abundant rainfall. This seasonal transformation supports biodiversity and traditional agricultural practices.

23. **Answer:** C) They foster the preservation and maintenance of natural springs and water sources

Explanation: Traditional cultural practices in Meghalaya emphasize the preservation and maintenance of natural springs, streams, and wells. These practices ensure the conservation of freshwater sources, aligning with the community's ethos toward sustainable resource management.

24. **Answer:** B) Virtual Reality (VR) tools

Explanation:

Virtual Reality (VR) tools are being utilized in Meghalaya to demystify cancer treatment, helping to reduce fears and misconceptions among patients. This technology provides immersive educational experiences to improve understanding and acceptance of clinical care.

25. **Answer:** B) They possess mass-like properties in one crystal direction and behave like massless particles in another.

Explanation: Semi-Dirac fermions have the unusual characteristic of behaving as massive particles along one crystallographic direction while acting like massless particles perpendicular to that direction. This anisotropic property was observed in ZrSiS under a strong magnetic field, expanding the understanding of quasiparticle behavior in condensed matter physics.

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