



INSTRUCTIONS

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS BOOKLET DOES **NOT** HAVE ANY UNPRINTED OR TURN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
2. ENCODE CLEARLY THE TEST BOOKLET SERIES **A, B, C** OR **D** AS THE CASE MAY BE IN THE APPROPRIATE PLACE IN THE ANSWER SHEET.
3. You have to enter your Roll Number on the Test Booklet in the Box provided alongside. **Do NOT** write anything else on the Test Booklet.
4. This Test Booklet contains **100** items (Questions). Each item is printed in **English**. Each item comprises four responses (answers). You will select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response with you consider the best. In any case, choose **ONLY ONE** response for each item.
5. You have to mark all your responses **ONLY** on the separate Answer Sheet provided. See direction in the answers sheet.
6. All items carry equal marks. Attempt all items. Your total marks will depend only on the number of **correct responses** marked by you in the answer sheet. For **every incorrect** response **1/3rd of the allotted marks** will be deducted.
7. Before you proceed to mark in the Answer sheet the response to various items in the Test booklet, you have to fill in some particulars in the answer sheets as per instruction sent to you with your Admission Certificate.
8. After you have completed filling in all responses on the answer sheet and the examination has concluded, you should hand over to Invigilator only the answer sheet. You are permitted to take away with you the Test Booklet.
9. Sheet for rough work are appended in the Test Booklet at the end.

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1. In the context of judicial interpretation, the presumption of constitutionality is best described as which of the following?

- (a) The presumption that the Preamble to the Indian Constitution is an essential part of it.
- (b) The presumption of the judiciary that a statute enacted by the legislature are constitutional unless it is clearly unconstitutional or a fundamental right is implicated by it.
- (c) The belief that those basic features of the Indian Constitution which are not explicitly mentioned in the Constitution are implicit.
- (d) The logic of dividing power between the Centre and the states in those matters which are not explicitly mentioned in the Constitution.

2. With reference to the Fugitive Economic Offenders (FEO) in India, consider the following statements:

- 1. A Fugitive Economic Offender is any individual who is willfully not paying a debt of more than Rs 5 crores and has absconded without facing the consequences.
- 2. Any such individual is declared a Fugitive Economic Offender by the money-lending institution to whom he owes the 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

3. The term 'Rules of Origin' is sometimes seen in the news with reference to

- (a) Permitting foreign educational institutions to set up their campuses in the domestic country
- (b) Regulating investment through Participatory notes to prevent round tripping of black money
- (c) Granting licenses to foreign e-commerce firms to operate in the domestic country
- (d) Developing trading norms to prevent dumping of foreign goods in the domestic market

4. A system declared as Globally Important Agricultural Heritage Systems (GIAHS), by FAO, uses which of the following criteria?

- 1. Food and Livelihood security
- 2. Agro-biodiversity
- 3. Local and Traditional Knowledge systems
- 4. Cultures, Value systems, and Social Organisations
- 5. Landscapes and Seascapes Features

Select the correct answer using the code given below.

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

5. Ajnapatra, written during the time of Maratha empire deals with:

- (a) commentary on the Vedic texts.
- (b) political principles of Maratha state.
- (c) the agreement between the various Maratha families during the formation of confederacy.
- (d) principles of grammar of Marathi language.

6. Zigzag technology, sometimes seen in news, pertains to
- (a) fuel saving technology in brick kilns
 - (b) strategic road development plan to avoid traffic congestions.
 - (c) crossbreeding technique in crops for higher yield
 - (d) battery charging alternatives in electric vehicles

7. Municipal Corporations can be found in big cities like Delhi, Bangalore, etc. Municipal Corporations have three authorities, namely, the council, the standing committees, and the commissioner. In this context, consider the following statements:

1. A Municipal Corporation in a state is formed by an act of the state legislature.
2. The head of the council of a municipal corporation is appointed by the state government.
3. The municipal commissioner is responsible for the implementation of the decisions taken by the council.

Which of the statements given above is/are correct?

- (a) 1 and 3 only
- (b) 2 and 3 only
- (c) 2 only
- (d) None

8. Consider the following statements:

1. Bodhisattvas, a central part of Mahayana Buddhism emerged during the reign of Ashoka.
2. Mahayana Buddhism believed that each being attains salvation on his own.
3. All known Bodhisattvas are male, as Mahayana Buddhism does not promote the worship of female deities.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 3 only
- (c) 1 and 3 only
- (d) None

9. Consider the following statements:

1. Stem cells are specialized cells having tissue-specific structures.
2. Stem cells can be found in embryos.
3. Stem cell therapy is used to treat cancers.

Which of the statements given above is/are correct?

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

10. With reference to the Kalingan temple architecture, what does "deula" mean?

- (a) It is the sanctum enshrining the deity.
- (b) It is the hall for congregation of devotees
- (c) It represents the curvilinear tower or "shikhara" on the temple.
- (d) It is the elaborate gateways on the entry of temple.

11. The terms *Toomba*, *Tarab* and *Tabli* are associated with which type of musical instruments?

- (a) Solid instruments
- (b) Percussion instruments
- (c) Wind instruments
- (d) String instruments

12. In the context of environment and ecology, the term 'Trophic Cascade' refers to?

- (a) The changes in population or community structures that occur at the boundary of two or more habitats.
- (b) The progressive dying, usually backwards from the tip of any portion of plant.
- (c) the flow of energy from one component to another in a food chain or across food chains.
- (d) The changes in an ecosystem structure when a top predator is removed or added to a food chain.

13. With reference to the 'Electronics Development Fund', which of the following statements is/are correct?

1. It is set up as a 'Fund of Funds' to enable the creation of an ecosystem of innovation, research, and development.
2. It is managed by an autonomous body of the Ministry of Electronics & Information Technology.

Select the correct answer using the code given below.

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

14. With reference to the coral reefs, consider the following statements:

1. Barrier reefs grow parallel to the coastline but are separated by deep lagoons.
2. Fringing reefs are the most common type of reefs found in the oceans.
3. Atolls are rings of coral that usually form around the peninsular coasts of the continents.

Which of the statements given above is/are correct?

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

15. Consider the following statements regarding the executive powers of Governor:

1. Governor acts as the Chancellor of Universities in the state.
2. He appoints the Chief Electoral Officer.
3. He can remove a member of the state public service commission.

Which of the statements given above is/are correct?

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

16. Which of the following commissions was/were set up to deal with famine issue in British India?

1. Campbell commission
2. Sadler commission
3. Stratchey commission

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

17. Consider the following pairs of Industries in India and their category:

Industry	Category	Example
1. White Goods	:	Dairy industry
2. Footloose	:	Diamond industry
3. Sunrise industry	:	Internet of Things

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

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

18. What is White-fi communication technology?

- (a) It refers to use of visible light portion of electromagnetic spectrum for communication.
- (b) It refers to the use of unused or underused portion of broadband frequencies for communication.
- (c) It refers to the advancement in wi-fi technology that completely removes white noise.
- (d) It is a solar-powered broadband wireless technology.

19. Consider the following statements about Harappan City Planning:

1. Only very large towns of Harappa and Mohenjodaro had a citadel.
2. They had a well-connected street system.
3. The drainage systems were not unique to the larger cities but were found in smaller settlements as well.

Which of the statements given above is/are correct?

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

20. *It is a form of drawing that is drawn by using rice flour and is a part of everyday life in southern states of India. It also features in the Sangam literature and has also been used in mathematical research, with its hexagons, dotted grids, hidden motifs and loops.*

Which of the following art forms is best described by the above passage?

- (a) Madhubani
- (b) Lippan
- (c) Kolam
- (d) Warli

21. Which of the following statements is/are **not** correct regarding the Estimates Committee?

1. The estimates committee examines the reports and accounts of public undertakings.
2. The Rajya Sabha has no representation in this Committee.
3. The CAG acts as a guide and philosopher of this committee.

Select the correct answer using the code given below.

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

22. With reference to the various properties of light and the phenomena and applications based on such properties, consider the following pairs:

Phenomena/Application	Property
1. Splitting of white light passing through a prism	: Dispersion of light
2. Mirage	: Total Internal Reflection of light
3. Holograms	: Interference of light

Which of the pairs given above are correctly matched?

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

23. Which of the following officials are appointed by the President by a 'warrant under his hand and seal'?

1. The Comptroller and Auditor General of India
2. Chief Information Officer
3. Judges of the Supreme Court
4. Central Vigilance Commissioner

Select the correct answer using the code below:

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

24. In the context of global cybersecurity, Agent Smith, recently in the news, refers to

- (a) a covert cyber-operation of Russian government in war-torn Syria.
- (b) a smart phone malware which recently affected millions of smartphones in India.
- (c) a series of surveillance drones operated by the US to keep an eye on the developments in Iraq.
- (d) a recently developed firewall to prevent malware attacks on messaging apps.

25. In the context of the economy, what do you understand by Shadow banking?
- (a) It refers to an illegal foreign exchange market where trading of currency happens outside the conventional banking system.
 - (b) It refers to provisions of accessing banking related services without actually going to the bank branch.
 - (c) It refers to the non bank financial intermediaries that provide services similar to those of traditional commercial banks.
 - (d) It is a term coined to denote the crony capitalism in banks that provide loans to kith and kin of politicians and business conglomerates.
26. In the context of empowerment of the backward castes during British India, which of the event happened earliest?
- (a) Formation of Harijan Sevak Sangh.
 - (b) Adoption of anti-Untouchability resolution by Indian National Congress for the first time.
 - (c) Formation of Sree Narayana Dharma Paripalana Yogam (SNDP).
 - (d) Mahad Satyagraha led by Dr. B. R. Ambedkar.
27. Consider the following statements regarding Cost-Push Inflation:
1. It is inflation triggered by supply-side constraints.
 2. It can only occur when demand is relatively elastic.
- 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

28. Hyperspectral imaging is an imaging technique in which electromagnetic radiations of different frequencies can be captured. Which of the following is/are well-known applications of hyperspectral imaging?
1. Identification of tree species within a forest
 2. Mineral exploration
 3. Detection of bats by converting very high-frequency signals into low-frequency signals
- Select the correct answer using the code given below.
- (a) 1 and 2 only
 - (b) 2 only
 - (c) 1, 2 and 3
 - (d) 1 only
29. With reference to space debris, generally used to describe the collection of unwanted objects in the earth's orbit, which of the following statements is/are **not** correct?
1. There is no binding global convention regarding space debris mitigation in place.
 2. Remove Debris mission is the first Indian attempt to clean up space debris commissioned by ISRO.
- 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

30. Which of the following pairs is/are correctly matched?

<i>Places in News</i>	<i>Country</i>
1. Hanau	: China
2. Balkh	: Afghanistan
3. Ras al-ain	: Iran

Select the correct answer using the code given below.

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

31. With reference to history of India during the 17th-18th century, consider the following statements regarding Mysore Kingdom:

- 1. The army in the Mysore Kingdom was organised on a European model through the system of *risalas*.
- 2. The land revenue system entailed direct imposition of taxes on the peasants and their collection through salaried officials.
- 3. A “state commercial corporation” was commissioned to set up factories for engaging in trade.

Which of the statements given above is/are correct?

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

32. The 44th Amendment Act of 1978 removed the Right to Property from the list of Fundamental Rights. Which of the following are other important changes that the 44th Amendment introduced?

- 1. It made the advice tendered by the central council of ministers binding on the President.
- 2. It broadened the ground on which National Emergency could be proclaimed under Article 352.
- 3. It restricted the scope of the Constitution on the suspension of the right to freedom of speech during the National Emergency.

Select the correct answer using the code given below.

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

33. The Sixth Schedule of the Indian Constitution provides for Autonomous District Councils in the state of Assam. In any such council, the power of direction, with respect to different acts of Parliament or the state legislature, lies with

- (a) The President of India
- (b) The Autonomous District Council
- (c) The Governor
- (d) The Chief Minister

34. Consider the following pairs:

<i>Festivals</i>	<i>State</i>
1. Medaram Jatara	: Odisha
2. Kambala	: Tamil Nadu
3. Losoong festival	: Sikkim

Which of above give pairs is/ are correctly matched?

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

35. NABARD is an apex development financial institution in India. In this context, which of the following statements is/are correct with respect to NABARD?

1. It is the custodian of Rural Innovation Fund.
2. It provides direct loans to food processing units in designated food parks.
3. It is responsible for regulating and supervising the functions of Co-operative banks and RRBs.

Which of the statements given above is/are correct?

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

36. India's ranking in the 'Logistics Performance Index' is sometimes seen in the news. Which of the following declares that ranking?

- (a) Organisation for Economic Cooperation and Development (OECD)
- (b) World Economic Forum
- (c) World Bank
- (d) World Trade Organisation

37. Consider the following statements regarding the Great Indian desert:

1. The underlying rock structure of the desert is an extension of the Peninsular plateau.
2. This region was under the sea during the Mesozoic area.

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

38. SUTRA PIC India programme is recent in news in context of:

- (a) Development of the textile sectors.
- (b) Research on indigenous cows.
- (c) Research on new variety of BT cotton.
- (d) Internship programme for the youth for their skill development.

39. The federal character of the Indian Constitution is a basic feature. Which of the following features of the Indian Constitution support its federal character?

1. The Indian Constitution is a written constitution.
2. An independent judiciary
3. The uniformity ensured by a single Constitution.

Select the correct answer using the code given below.

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

40. Consider the following statements with respect to Micro, Small and Medium Industries:

1. At present, no item is reserved for exclusive manufacturing in the MSME industry.
2. More than 30% of India's exports are produced by MSME industries.
3. According to Public Procurement Policy, it is compulsory for all CPSEs to procure a minimum of 25% annual purchases from MSMEs.

Which of the statements given above is/are correct?

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

41. Which of the following conditions is/are associated with Algal bloom?
1. Increase the amount of oxygen into water bodies.
 2. Enrichment in the nutrient content of the water
 3. It can occur only in freshwater environments.
- Select the correct answer using the code given below.
- (a) 1 and 2 only
 - (b) 2 only
 - (c) 1 and 3 only
 - (d) 1, 2 and 3
42. In the context of the economy, what do you understand by the Reserve tranche position?
- (a) It is the foreign currency amounts that a member country may draw from the IMF without agreeing to conditions.
 - (b) It refers to cash and other reserve assets held by a central bank that are primarily available to balance payments of the country.
 - (c) It denotes the deposits that banks must keep with monetary authority as a reserve.
 - (d) It refers to reserves of the Central government held by the Reserve Bank of India as a banker to government.
43. With reference to Law Commission of India, consider the following statements:
1. It is constituted every 5 years.
 2. It examines the existing laws in the light of the Directive Principles of State Policy.
 3. It is headed by the Law Minister.
- Which of the statements given above is/are correct?
- (a) 2 only
 - (b) 1 and 3 only
 - (c) 2 and 3 only
 - (d) 1 and 2 only

44. *This is the largest lake with calm and freshwater in Thiruvananthapuram district of Kerala and has considerably reduced in size in the last few decades. It hosts the annual Ayyankali boat race. Recently, the Indian Navy has begun the hydrographic survey of this lake to create its comprehensive bathymetric map.*

Which of the following lakes is being described in the above passage?

- (a) Ashtamudi Lake
- (b) Pookode Lake
- (c) Vembanad Lake
- (d) Vellayani Lake

45. With reference to foreign travelers and Mughal courts they visited, consider the following pairs:

Foreign Travellers

Mughal Emperor

- | | |
|----------------------------|-------------|
| 1. Ralph Fitch | : Akbar |
| 2. Sir Thomas Roe | : Jahangir |
| 3. Antonio Montserrat | : Shahjahan |
| 4. Jean Baptiste Tavernier | : Aurangzeb |

Which of the pairs given above are correctly matched?

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

46. Consider the following statements regarding Aryabhata:

1. He pointed out that the earth rotates.
2. He formulated the rules for calculating the area of a triangle.
3. He discovered the cause of solar and lunar eclipses.

Which of the statements given above are correct?

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

47. Market Intervention Scheme (MIS) is an ad-hoc price support mechanism implemented for the procurement of commodities during distress sale. In this context, consider the following statements.

1. MIS is implemented when there is at least a 10% increase in production or a 10% decrease in the prices of a commodity.
2. It is being implemented by the Food Corporation of India (FCI).
3. Horticultural commodities like apples, areca nut are included in the scheme.

Which of the statements given above is/are correct?

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

48. Which of the following activities are mandated to the Central Drugs Standard Control Organisation?

1. Approval of new drugs.
2. Determining the retail prices of drugs
3. Exercising control over the quality of imported drugs.
4. Granting licenses to certain specialized critical drugs.

Select the correct answer using the code given below.

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

49. With reference to "Sedition", which of the following statements is/are correct?

1. It is not mentioned in the Indian Constitution.
2. It was first passed by the British government to curb the activities of the Hindustan Socialist Republic Association.

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

50. This is a tribe found in the Nilgiri region of Tamil Nadu and also in adjoining Karnataka and Kerala. To raise funds for the conservation of pachyderms, these tribal artisans in the Nilgiris use the invasive lantana weed to mould life-size sculptures and auction them. Which of the following tribe is best described by the above passage?

- (a) Bhutias
- (b) Chenchu
- (c) Yanadi
- (d) Betta Kurumba

51. PACEsetter fund constituted by India and the USA, seen in news is related to

- (a) speeding up the establishment of more number of Atal tinkering labs.
- (b) the commercialisation of innovative off-grid clean energy products.
- (c) the indigenous manufacturing of defence equipments.
- (d) the setting up of strategic petroleum reserves.

52. Consider the following statements with respect to the Global System of Trade Preferences among developing countries.

1. It is a preferential trade agreement that emerged from the Doha Development Round negotiations of WTO.
2. India is a signatory to the agreement.

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

53. Which of the following provisions of the Indian Constitution is outside the scope of Article 368 and can be amended by a simple majority?

- (a) Any of the lists in the seventh schedule
- (b) Use of official language
- (c) Directive Principles of State Policy
- (d) Power to amend the Article 368 itself

54. In the context of modern Indian history, the 'pledge movement' aimed at:

- (a) boycotting the 1937 elections by socialists.
- (b) boycotting foreign goods during swadeshi movement.
- (c) prohibiting child marriages in India.
- (d) not taking admissions in British administered schools.

55. Which of the following temples is/are located within a Tiger Reserve?

1. Beladakuppe Mahadeshwara temple
2. Lingaraja Temple
3. Sabarimala temple

Select the correct answer using the code given below.

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

56. Consider the following statements with reference to Raja Rammohan Roy:

1. Brahmo Samaj founded by him aimed to purify Hinduism and preach monotheism.
2. He never questioned the authority of vedas and considered them infallible.

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

57. National Formulary of India, a manual containing clinically oriented summaries of pharmacological information about selected drugs is published by:

- (a) Central Drugs Standard Control Organization
- (b) Medical Council of India
- (c) Indian Pharmacopoeia Commission
- (d) National Pharmaceutical Pricing Authority

58. As per the Representation of People Act (1951), a person shall not be qualified for contesting in the elections to the Parliament in which of the following cases?

1. He is convicted for any offense resulting in imprisonment for two or more years.
2. He is detained under preventive detention law.
3. He is punished for preaching and practicing social crimes such as untouchability.

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

59. Various sectors are given Infrastructure status by including in the Harmonised Master List of Infrastructure sub-sectors to increase avenues of funding. Which of the following have infrastructure status?

1. Logistics sector
2. Soil Testing laboratory
3. Sewage disposal system
4. Medical Colleges
5. Affordable Housing

Select the correct answer using the code given below.

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

60. Water in the areas of upwelling is generally associated with which of the following characters?

- (a) Warm and lacking in nutrients
- (b) Warm and rich in nutrients
- (c) Cold and lacking in nutrients
- (d) Cold and rich in nutrients

61. The Global Ecosystem Management Programme (under Global Ecosystem Management) is the initiative of

- (a) FAO
- (b) World Bank
- (c) UN
- (d) IUCN

62. Internet Protocols represent the rules that govern sending/receiving messages through the internet. In this context consider the following statements about IP versions - IPv4 and IPv6?

1. IPv4 is a 32-bit numeric address and IPv6 is a 128-bit alphanumeric address.
2. IPv4 can be used by most computers but IPv6 usage is restricted to supercomputers only.

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

63. In the field of nanotechnology, carbon nanotubes (CNT) are gaining importance. In this context, which of the following statements are correct?

1. They are cylindrical molecules that consist of rolled-up sheets of carbon atoms.
2. They can be used in drug delivery and cleaning up of oil spills.
3. They have extremely high density and low chemical stability.

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

64. In the context of numismatic or coinage history of India, consider the following statements:

1. While the Mauryan period saw an abundance of lead and copper coins, the period of Gupta coins saw an abundance of gold coins.
2. Gupta coins followed the tradition of the Kushans and depicted the king on the obverse and a deity on the reverse.

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

65. In the context of WTO affairs, what do you understand by 'Swiss formula'?

- (a) It is a mathematical formula for reducing import tariffs by member countries.
- (b) It refers to a method of calculating minimum levels of trade distorting agriculture subsidies that are permitted under WTO agreement.
- (c) It denotes a criteria of minimum novelty required for a product to be given a patent.
- (d) It refers to methodologies used by European Union for the calculation of dumping margins in anti dumping investigations.

66. Consider the following statements with regard to seagrass meadows:

1. It is a habitat for many marine species like dugong, manatees, and turtles.
2. They are confined to tropical seas and oceans.
3. It helps in stabilizing sediments, recycling of nutrients and forms the base of the oceanic detrital food webs.

Which of the statements given above are correct?

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

67. Destruction of the wetlands, located in the river, is likely to result in

- (a) a decreased sediment load in the river.
- (b) decrease in the level of pollutants such as nitrates in the river.
- (c) an increase in the diversity of aquatic species in the river.
- (d) increased frequency of flooding of the river valley.

68. Consider the following terms used in administration during the rule of Satavahanas:

Term	Meaning
1. Ahara	: Military Head
2. Gaulmika	: Administrative units
3. Skandhavaras	: Military camps

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

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

69. Which of the following enactments helps in implementing the basic philosophy of Environmental Impact Assessment?

1. Environment Protection Act, 1986
2. The Water (Prevention and Control of Pollution) Act, 1974
3. The Air (Prevention and Control of Pollution) Act, 1981
4. The Forest Conservation Act 1980
5. The Wildlife (Protection) Act, 1972

Select the correct answer using the code given below.

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

70. Which of the following is a bilateral military exercise between India and Japan?

- (a) Tiger Triumph
- (b) Yudh Abhyas
- (c) Exercise Malabar
- (d) Dharma guardian

71. Convalescent plasma therapy is recently in news related to treat

- (a) patients infected with COVID-19
- (b) last stage cancer patients.
- (c) patients suffering from tuberculosis.
- (d) patients suffering from mental disorder.

72. This stupa located in Madhya Pradesh displays a blend of Mathura and Gandhara art features. Ajatshatru's visit to Buddha is one striking depiction on the railing pillars of one of the gateway of stupa. Donative Inscriptions found on the *toranas* of this stupa record the pious gifts offered to various kinds of artisans like potters, weavers, masons, ivory workers etc.

Which of the following stupas is best described in the above passage?

- (a) Chaukhandi stupa
- (b) Bharut stupa
- (c) Dhameka stupa
- (d) Kesariya stupa

73. Consider the following statements with reference to the Foreign Contribution Regulation Act (FCRA), 2010:

1. The voluntary organizations accepting foreign contributions must register with the Ministry of Home Affairs.
2. The organization is granted a one-time registration certificate.
3. It prohibits government servants to accept foreign contributions.

Which of the statements given above is/ are correct?

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

74. Consider the following statements with reference to the layers of the Earth's atmosphere?

1. A decrease of temperature with height occurs only in the layers of the troposphere and stratosphere.
2. Auroras, cosmic glowing lights occur in the layer of the Stratosphere.
3. The troposphere is thicker at the equator than at the poles.

Which of the statements given above is/ are correct?

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

75. The British government appointed the Lothian Committee to:

- (a) suggest an effective response to growing revolutionary upsurge in India.
- (b) formulate a system of franchise for India.
- (c) draw up a comprehensive code of conduct for the Indian vernacular press.
- (d) suggest means to improve the industrial output of India.

76. With reference to restrictions on fundamental rights, consider the following statements:

1. The fundamental right to form an association among the members of a state police force can only be restricted by the Parliament.
2. Declaration of martial law automatically suspends the writ of habeas corpus.

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

77. Consider the following statements:

1. The Constitution provides that the Supreme Court can make laws on any matter pending before it.
2. Supreme Court can reduce the minimum sentence prescribed for a crime.

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

78. In the context of the Indian Parliament, a substantive motion is **not** used in which of the following?

- (a) In the case of the removal of judges of Supreme Court.
- (b) As the motion of thanks on the President's Address
- (c) In the election of the Deputy Chairman of the Rajya Sabha
- (d) For introducing a money bill

79. With reference to the Indian national movement, *Irwin declaration* refers to a declaration made by Lord Irwin:

- (a) clarifying the intention of the British government which was to facilitate the dominion status for India.
- (b) putting forward the British conditions for accepting the demands of Mahatma Gandhi during Civil Disobedience movement.
- (c) for the appointment of Simon Commission to report on India's constitutional progress for introducing constitutional reforms.
- (d) to constitute Round Table Conferences to discuss about India's Constitutional reforms.

80. In the context of ecology, the presence of 'Species evenness' indicates which of the following?

- 1. The variation in genes within a particular species.
- 2. The variety of living organisms on earth.
- 3. The measure of number of species found in a community.
- 4. The measure of proportion of species at a given site.

Select the correct answer using the code given below.

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

81. Consider the following statements regarding the Liquidity Adjustment Facility (LAF):

- 1. LAF is a monetary policy tool that aids banks in accommodating frictional liquidity.
- 2. Under LAF, RBI borrows money from banks at the repo rate.
- 3. LAF was introduced in India based on the recommendations of the Narasimham committee on banking sector reforms (1998).

Which of the statements given above is/are correct?

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

82. Consider the following statements about Global Positioning System (GPS):

- 1. The satellites in the space segment are placed in low earth orbit.
- 2. GPS receiver requires the location of a minimum of 4 satellites to work out the user's accurate 3-D location.
- 3. GPS can be used to create seismic hazard maps.

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

83. Consider the following statements regarding Barak River:

- 1. Barak river flows through the four states of India.
- 2. It forms India's boundary with Myanmar.

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

84. Which of the following statements is/are correct with reference to the National Human Rights Commission (NHRC)?

1. Either a retired Chief Justice of India or a retired judge of the Supreme Court can be the chairman of NHRC.
2. The chairperson of the National Commission for Backward Classes is a deemed member of the NHRC.
3. Neither the chairperson nor any member of the Commission is eligible for reappointment.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 1 and 2 only
- (c) 1, 2 and 3
- (d) None

85. 'It is famous for being the only national park in the world to have four big cat species i.e. leopard, tiger, clouded leopard, and snow leopard. It has been declared both a Tiger Reserve and National Park. It exhibits a wide range of habitats like tropical moist forests, montane forests, temperate forests, alpine meadows, and perennial snow.'

Which of the following National Parks is described in the above passage?

- (a) Namdapha National Park
- (b) Kaziranga National park
- (c) Nameri National Park
- (d) Khangchendzonga National Park

86. *2 billion kilometre to safety campaign* seen recently in news is related to?

- (a) create awareness regarding the use of drug addiction among the youth.
- (b) promote the habit of travelling in public transport to mitigate climate change.
- (c) encourage people to act in solidarity for the refugees.
- (d) create awareness to regarding women health.

87. Which of the following statements is/are correct regarding the Bombay Plan, 1944 put forward by the Indian capitalists.?

1. It aimed at minimizing government intervention and regulation.
2. It highlighted the significance of social services especially education.
3. It proposed to set up industrial capital in Bombay instead of Calcutta.

Select the correct answer using the code given below.

- (a) 1 and 3 only
- (b) 2 only
- (c) 3 only
- (d) None

88. Which of the following gases are well-known Green House Gases?

1. Water Vapor
2. Surface Level Ozone
3. Nitrous oxides
4. Carbon Monoxide

Select the correct answer using the code given below.

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

89. Consider the following statements regarding the Convention on International Civil Aviation, 1944 (Chicago Convention):

1. It establishes rules of airspace, aircraft registration, and safety in relation to air travel.
2. It only applies to the operations of civilian aircraft and not to State or military aircraft.
3. It is directly involved in an aircraft accident investigation.

Which of the statements given above is/are correct?

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

90. With reference to Antimicrobial resistance which of the following statements is **not** correct?

- (a) It occurs naturally in some human beings.
- (b) Timely vaccination of animals can reduce the prevalence of antibiotic resistant bacteria.
- (c) Antibiotic-resistant bacteria cannot be transmitted from humans to humans.
- (d) Sharing or using left-over antibiotics can accelerate the development of antimicrobial resistance.

91. Consider the following statements:

- 1. The qualifications required for a person to be the judge of a high court are the same as the qualifications required for the office of the Supreme Court judge.
- 2. The judge of a high court can be removed on the same ground as a judge of the supreme court.
- 3. Violation of the constitution is the only ground for the removal of a high court judge.

Which of the statements given above is/are correct?

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

92. Consider the following statements:

- 1. National Parks enjoy a greater degree of protection than Wildlife sanctuaries.
- 2. National parks can be created for a particular species whereas Wildlife Sanctuaries are not primarily focussed on a particular species.
- 3. A sanctuary can be upgraded to a national park but a national park generally is not downgraded to a sanctuary.
- 4. Both National Parks and Wildlife Sanctuaries are established under the Environment protection act 1986.

Which of the statements given above is/are correct?

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

93. Which of the following is/are the likely consequences of an increase in interest rates by the Federal Reserve Bank?

- 1. Weakening of Indian rupee
- 2. Importers earn higher profit
- 3. Flight of capital from the country

Select the correct answer using the code given below.

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

94. Which of the following organizations works as the Central Counter-Terrorism Law Enforcement Agency in India?

- (a) Intelligence Bureau (IB)
- (b) Research and Analysis Wing (R&AW)
- (c) Central Bureau of Investigation (CBI)
- (d) National Investigation Agency (NIA)

95. An allotrope is each of the multiple forms in which an element can exist. In this context, which of the following is an allotrope of Carbon?

1. Diamond
2. Graphite
3. Graphene
4. Fullerenes

Select the correct answer using the code below.

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

96. Head Count Ratio is widely used in India as a measure of

- (a) Poverty
- (b) Unemployment
- (c) Inflation
- (d) Inequality

97. Which of the following is/are sexually transmitted diseases?

1. Syphilis
2. Chlamydia
3. Beriberi
4. Hepatitis B

Select the correct answer using the code given below.

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

98. Consider the following statements regarding Public Debt:

1. The majority of the internal debt is sourced from dated securities and treasury bills.
2. The majority of the external debt is sourced from international capital markets.
3. Special bonds issued to Food Corporation of India (FCI) by the Government of India are included in Public debt.

Which of the statements given above is/are correct?

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

99. Consider the following statements about Taiga Forests:

1. These are present only in the Northern hemisphere.
2. This biome typically has short, wet summers and long, cold winters.
3. These forests are endangered due to logging and mining by humans as they have a short growing season.

Which of the statements given above is/are correct?

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

100. 4P1000 initiative is sometimes in news is

- (a) an initiative to combat climate change
- (b) a group of four countries to get seat in UNSC
- (c) an initiative to build consensus on Comprehensive Convention on International Terrorism
- (d) an initiative to prevent proliferation of nuclear weapons

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