

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO

Booklet Serial No. 157289

Test Booklet Series

TEST BOOKLET - 2023  
GENERAL STUDIES EXAMINATION - 2023

Paper - I  
(91)

A

Time Allowed: Two Hours

Maximum Marks: 200

**INSTRUCTIONS**

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET DOES *NOT* HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
2. Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series Code A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Response Sheet. Any omission/discrepancy will render the Response Sheet liable for rejection.
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 comprises of four responses (answers). You will select the response which you want to mark on the Response sheet. In case you feel that there is more than one correct response, mark the response which 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 Response Sheet provided. See directions in the Response Sheet.
6. All items carry equal marks.
7. Before you proceed to mark in the Response sheet the response to various items in the Test Booklet you have to fill in some particulars in the Response Sheet as per instructions sent to you with your Admission Certificate.
8. After you have completed filling in all your responses on the Response Sheet and the examination has concluded, you should hand over to the Invigilator *only the Response Sheet*. You are permitted to take away with you the Test Booklet and Candidate's Copy of the Response Sheet.
9. Sheets for rough work are appended in the Test Booklet at the end.
10. **Penalty for wrong answers:**  
**THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY THE CANDIDATE.**
  - (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, **one-third** of the marks assigned to that question will be deducted as penalty.
  - (ii) If a candidate gives more than one answer, it will be treated as a **wrong answer** even if one of the given answers happens to be correct and there will be same penalty as above for that question.
  - (iii) If a question is left blank, i.e., no answer is given by the candidate, there will be no **penalty** for that question.

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(91 - I) (A) /2023

[P.T.O.]



1. With reference to the prevalence of agricultural technologies in the Indus Valley Civilization, consider the following statements.
1. The terracotta models of the plough have been found at the site of Banawali.
  2. The evidence of the ploughed field was found at Kalibangan.
  3. Traces of canals for irrigation have been found at the site of Shortughai in Afghanistan.

Choose the correct answer:

- A) 2 and 3 only
- B) 2 only
- C) 1 and 3 only
- D) 1, 2 and 3

2. Choose the correctly matched pairs of Mahajanapadas with respect to their capitals.

<b>Mahajanapadas</b>	<b>Capital</b>
1. Avanti	- Ujjain
2. Kosala	- Kaushambi
3. Magadha	- Vaishali
4. Gandhara	- Poonch

Choose the correct answer:

- A) Only one pair matched
  - B) Only two pairs matched
  - C) Only three pairs matched
  - D) All four pairs matched
3. The term "Votive inscriptions" refers to
- A) Records of miseries of women such as sati, etc
  - B) Gifts made to religious institutions
  - C) Royal orders and decisions of the kings
  - D) Account on sacrifices done by kings during their consecration ceremony
4. With reference to the Harsha Empire, consider the following statements.
1. Harsha's administration had become more feudal and decentralised than the Gupta Empire.
  2. Harsha is credited with paying off cash to his officers, differing from his ancient predecessors.

Choose the correct answer:

- A) 1 only
- B) 2 only
- C) Both 1 and 2
- D) Neither 1 nor 2



5. With reference to the social order during the Satavahanas period, consider the following statements.

1. Satavahanas show traces of a matrilineal social structure indicating that mothers enjoyed much importance in their society, which differs from North Indian kingdoms.
2. They were the first rulers to make land grants (tax-free lands) to the Brahmanas.

Choose the correct answer:

- A) 1 only
- B) 2 only
- C) Both 1 and 2
- D) Neither 1 nor 2

6. Santarakshita and Dipankara, terms in Medieval India were related to

- A) Sects of Mahayana Buddhism
- B) Sects of Digambara in Jainism
- C) Sects of Lingayats
- D) Scholars of Buddhism

7. Match the following travelers in Medieval India with respect to their dynasties.

<b>Travellers</b>	<b>Dynasties</b>
1. Al-Masudi	Paramaras
2. Sulaiman	Rashtrakutas
3. Marco Polo	Palas
4. Amir Khusrau	Ghaznavid

Choose the correct answer:

- A) Only one pair matched
- B) Only two pairs matched
- C) Only three pairs matched
- D) All four pairs matched

8. Match the following Rajput States with respect to their Capital during Medieval India.

<b>Rajput States</b>	<b>Capitals</b>
1. Gahadavalas	- Kanauj
2. Tomars	- Delhi
3. Chauhans	- Jaipur
4. Chandellas	- Ujjain

Choose the correct answer:

- A) Only one pair matched
- B) Only two pairs matched
- C) Only three pairs matched
- D) All four pairs matched

9. He dominated and extended the Bahmani kingdom further south. He was granted the title 'Chief of the Merchants' (Malik-ul-Tujjar), He divided the kingdom into eight provinces or tarafs, He was also a great patron of arts and built a magnificent madarasa in the capital, Bidar. Who was the person referred to above?
- A) Ahmad Shah
  - B) Feroz Shah Bahmani
  - C) Mahmud Gawan
  - D) Mahmud Shah III
10. One of the largest and most spectacular rock shelters is located in the Vindhya hills, full of Paleolithic and Mesolithic remains. It consists of the richest paintings of daily life events from hunting, dancing, and music to animal fighting, honey collection etc. Which of the following site is referred to above?
- A) Lakhudiyar caves
  - B) Pachmarhi caves
  - C) Bhimbetka caves
  - D) Raigarh caves
11. With reference to Amir Khusrau, the famous Persian writer of Medieval India, consider the following statements.
1. He was a contemporary of Mughal emperors Humayun and Akbar.
  2. He blended the Hindu and Iranian systems by introducing a new light music style known as qwalis.
  3. He created a new style of Persian poetry called Sabaq-i-Hind.
- Choose the correct answer:
- A) 1 and 3
  - B) 2 and 3
  - C) 1 and 2
  - D) 1, 2 and 3
12. Arrange the following judicial organisation in the right power structure using an appeal mechanism during Warren Hastings period
1. Diwani Adalat
  2. Sadar Diwani Adalat
  3. Provincial Courts of Civil Appeal
  4. Registrar Courts
- Choose the correct answer:
- A) 1-4-3-2
  - B) 4-1-3-2
  - C) 1-2-3-4
  - D) 1-3-4-2



13. Match the following educational institutions with their establishers.

<b>Educational Institutions</b>		<b>Establishers</b>
1. Calcutta Madrasah	-	Lord Wellesley
2. Sanskrit College	-	Raja Ram Mohan Roy
3. Vedanta College	-	Jonathan Duncan
4. Hindu College	-	David Hare

Choose the correct answer:

- A) Only one pair matched
- B) Only two pairs matched
- C) Only three pairs matched
- D) All four pairs matched

14. Which of the following statements with respect to the East India Company Act of 1784 is/are correct?

- 1. The Act gives the British Government supreme control over the company's affairs and administration in India.
- 2. The Act provides special powers to the Presidencies of Bombay and Madras providing it more powers in terms of revenue matters.
- 3. It established the Board of Control with six commissioners to look out commercial functions of the Company.

Choose the correct answer:

- A) 1 and 2 only
- B) 1 and 3 only
- C) 1 only
- D) 2 and 3 only

15. Consider the following statements regarding Twenty eight months of Congress rule (1937- 39) in provinces.

- 1. All emergency powers acquired by the provincial governments during 1932, through Public Safety Acts were repealed
- 2. Bans on illegal political organizations such as the Hindustan Seva Dal and Youth Leagues were lifted.
- 3. Ban on the communist party also lifted in some provinces

Choose the correct answer:

- A) 2 and 3 only
- B) 2 only
- C) 3 only
- D) 1 and 2 only

16. Consider the following statements regards the 'Cabinet mission plan' and 'Interim government.'

1. Cabinet mission plan implicitly accepted the 'Pakistan' demand of the Muslim league.
2. Muslim League initially accepted the Cabinet mission plan and later withdrew its acceptance of the mission plan.
3. The interim government was formed, under a cabinet mission plan, by Congress members alone with Nehru as de facto head.

Choose the incorrect answer:

- A) 1 only
- B) 1 and 2 only
- C) 2 and 3 only
- D) 1, 2 and 3

17. Consider the following statements regards 'Dharasana salt satyagraha.'

1. Mahatma Gandhi, Imam Saheb and Manilal led this satyagraha
2. It's one of the important non-violent satyagraha in Indian history
3. It was held after Mahatma Gandhi broke the salt law in Dandi March.

Choose the correct answer:

- A) 1 and 2 only
- B) 2 and 3 only
- C) 1 and 3 only
- D) 1, 2 and 3

18. Consider the following statements regards Vijayanagara and Bahmani kingdoms,

1. The rulers of the Vijayanagara kingdom and Bahmani sultans had a matrimonial alliance.
2. Vijayanagara rulers inducted Muslims into their armies.

Choose the correct answer:

- A) 1 only
- B) 2 only
- C) Both 1 and 2
- D) Neither 1 nor 2

19. Consider the following statements regarding important Bhakti saints Sankara from Kerala and Ramanuja from Tamilnadu.

1. Both Sankara and Ramanuja are contemporaries and they believed in Non-Dualism, that is, the God and created world is one.
2. Sankara argued that the way forward to salvation was strengthened by knowledge
3. Ramanuja argued that the grace of God is more important than the knowledge about him in order to attain salvation.
4. Sankara upheld the Vedas as the fountain-head of true knowledge and Ramanuja believed the path of Bhakti was open to all, irrespective of caste.

Choose the correct answer:

- A) 1, 2 and 3 only
- B) 2, 3 and 4 only
- C) 1, 3 and 4 only
- D) 1 and 2 only

20. The Imperial Cholas are pioneers in local self-government. In this context, consider the following statements.

1. Uttiramerur inscriptions provide details of the formation and functions of village councils.
2. Both qualifications and disqualifications were mentioned for members of various committees
3. The members of the committee were called varyapperumakkal.

Choose the correct answer:

- A) 1 only
- B) 1 and 3 only
- C) 2 only
- D) 1, 2 and 3 only

21. With respect to Mughal paintings, consider the following statements.

1. Daswant and Basawan were two famous painters of Jahangir's court.
2. Mughal paintings reached a climax under Jahangir
3. Aurangzeb's lack of interest in paintings led to a dispersal of artists to different places.

Choose the correct answer:

- A) 1 and 2 only
- B) 2 and 3 only
- C) 1 and 3 only
- D) 1, 2 and 3 only



22. Consider the following statements regarding 'Tughlaq architecture.'
1. The striking feature of the Tughlaq architecture was the sloping walls, called 'batter'.
  2. The 'batter' is extensively used by Firuz Tughlaq in his buildings.
  3. Tughlaq generally used costly red sandstone in their buildings

Choose the correct answer:

- A) 1 and 3 only
- B) 2 only
- C) 1 only
- D) 1, 2 and 3

23. Consider the following statements regarding Article 31 A:

1. It doesn't immunise the state law from judicial review unless it has been reserved for the President's consideration and has received his assent.
2. This article doesn't provide the payment of compensation at market value when the state acquires the land held by a person for his personal cultivation.

The correct statement/s is/are:

- A) 1 only
- B) 2 only
- C) Both
- D) Neither 1 nor 2

24. Which of the following directive principles were added after the adoption of the Constitution?

1. To promote equal justice and provide free legal aid to the poor
2. To take steps to secure the participation of workers in the management of industries
3. To protect and improve the environment and to safeguard forests and wildlife

The correct answer/s is/are:

- A) 1 only
- B) 2 and 3 only
- C) 1 and 2 only
- D) 1, 2 and 3

25. Consider the following sentences regarding the IX Schedule of the Indian Constitution .

1. The constitution assembly enacted Ninth Schedule in the original Constitution to ensure agrarian reform .
2. To reduce the discrimination and denial of equal protection of laws guaranteed to citizens under Article 14 of the Constitution.
3. After the landmark judgement of the Supreme Court in 2007, the now well settled principle is that any law placed under Ninth Schedule is subject to Court scrutiny.

The correct answer/s is/are:

- A) 1 only
- B) 2 and 3 only
- C) 1 and 2 only
- D) 1, 2 and 3

26. Consider the following statements regarding Domicile.

1. The Domicile of a person means his permanent home and may include his birthplace.
2. Article 16(3) allows for making provisions in government appointments with respect to residence but not place of birth.
3. The Parliament can only prescribe residence within a state or union territory as a condition for certain employments or appointments in that state or union territory, local authority, or other authority within that state or union territory.

The correct answer/s is/are:

- A) 1 only
- B) 2 and 3 only
- C) 1 and 2 only
- D) 1, 2 and 3

27. Consider the following statements regarding Hindu Succession Act.

1. Hindu women's right to be the coparcener (joint legal heir) and inherit ancestral property on terms equal to male heirs.
2. It applies to everyone who is not a Muslim, Christian, Parsi or Jew, Buddhist, Sikh and Jain by religion.
3. Kerala is the only state to have abolished the Hindu Joint Family System in 1975.

The correct answer/s is/are:

- A) 1 only
- B) 1 and 3 only
- C) 2 and 3 only
- D) 1, 2 and 3

28. Consider the following sentences regarding the President's Pardoning Power in the USA.

1. All Presidents shall have the power to grant Reprieves and Pardons for offenses against the United States, except in cases of impeachment.
2. The power applies to both federal crimes and state crimes.
3. Those pardoned by the President cannot be tried under the laws of individual states.

The correct answer/s is/are:

- A) 1 only
- B) 1 and 3 only
- C) 2 and 3 only
- D) 1, 2 and 3



29. Consider the following statements regarding preventive detention law;
1. Preventive Detention involves the detainment (containment) of a person to keep him/her from committing future crimes and/or escaping future prosecution .
  2. Article 22 (3) (b) of the Constitution allows for preventive Detention and restriction on personal liberty for state security and public order reasons.
  3. Bengal Regulation III of 1818 and the Rowlatt Act of 1919 were enacted to empower the government to arrest anyone for preventive Detention.

The correct answer/s is/are:

- A) 1 only
  - B) 1 and 3 only
  - C) 2 and 3 only
  - D) 1, 2 and 3
30. Consider the following statements regarding Article 371-A;
- It says that in some matters, the Acts of Parliament relating to the matters would not apply to the *state* unless the State Legislative Assembly decides to include laws that may interfere with customs, social practices etc. and the ownership of their land. It entrusts the Governor of the state with special responsibility for law and order in the state.

The *state* mentioned in the above statements is

- A) Nagaland
  - B) Manipur
  - C) Mizoram
  - D) Meghalaya
31. Consider the following regarding Legislative Council.
1. Its establishment is defined in Article 169 of the Constitution of India.
  2. The strength of the Legislative Council should not exceed  $1/3^{\text{rd}}$  of the total number of members of the Legislative Assembly, but it should not be less than 40.
  3.  $1/6^{\text{th}}$  of members are nominated by the Governor based on their special knowledge.
  4. Legislative councils are subject to dissolution; one-third of their members retire every second year.

How many statements given above are correct?

- A) Only one statement
  - B) Only two statements
  - C) Only three statements
  - D) All the statements
32. Which of the following is considered as Tender Vote?
- A) This refers to a vote cast by another person on behalf of a visually challenged person.
  - B) This refers to a vote cast by a person even after another person has already voted.
  - C) This refers to a vote cast by another person on behalf of Army personnel.
  - D) This refers to a vote cast by a person whose name is not on the electoral roll.

33. The disqualification on the ground of defection does not apply to which of the following reason/s?

1. If a member goes out of his party due to the merger of the party with another party.
2. If a member, after being elected as the presiding officer of the House, voluntarily gives up the membership of his party or re-joins it after he ceases to hold that office.

The correct statement/s is/are:

- A) 1 only
- B) 2 only
- C) Both
- D) Neither 1 nor 2

34. Which of the following has the oldest Act of Freedom of the Press?

- A) Norway
- B) United Kingdom
- C) Sweden
- D) Germany

35. Consider the following statements regarding Real Estate Appellate Tribunal (REAT)

1. The Chairperson is or has been a Judge of a High Court
2. Chairperson and members are eligible for reappointment.
3. The tribunal is bound by rules and procedures of the civil procedure code (CPC) and Indian Evidence Act.

The correct answer/s is/are:

- A) 1 only
- B) 2 and 3 only
- C) 1 and 3 only
- D) 1, 2 and 3

36. Consider the following statements regarding GST Council:

1. A simple majority of the members present and voting shall take every decision of the Council.
2. The vote of the Central Government and state government shall weigh one-third of the total votes cast each.

The correct statement/s is/are:

- A) 1 only
- B) 2 only
- C) Both
- D) Neither 1 nor 2



37. Based on the Essential Commodities Act 1955, any action on imposing stock limit shall be based on price rise, and an order for regulating stock limit of any agricultural produce may be issued under this Act only if there is

1. A hundred percent increase in the retail price of horticultural produce.
2. Fifty percent increase in the retail price of non-perishable agricultural foodstuffs.

The correct statement/s is/are:

- A) 1 only
- B) 2 only
- C) Both
- D) Neither 1 nor 2

38. Consider the following regarding the "National eVidhan Application (NeVA)";

1. It will help the members to carry out their duties in the House efficiently in a Paperless manner.
2. NeVA will completely eliminate the process of sending out a notice.
3. Mobile app of NeVA has made information on the conduct of business in Legislatures accessible anytime, anywhere to everyone.

How many statements given above are correct?

- A) Only one statement correct
- B) Only two statements are correct
- C) All the statements are correct
- D) All the statements are incorrect

39. Consider the following regarding the Flag Code of India, 2002 which was amended vide Order dated 30<sup>th</sup> December, 2021;

1. The Flag is displayed in the open or displayed on the House of a member of public, it may be flown day and night.
2. A member of a public, a private organization or an educational institution may hoist/display the National Flag on all days and occasions, ceremonial or otherwise.
3. No other flag or bunting should be placed higher than or even side by side with the National Flag.

How many statements given above are correct?

- A) Only one statement correct
- B) Only two statements are correct
- C) All the statements are correct
- D) All the statements are incorrect

40. Consider the following statements regarding minority status;
1. Minority status of religious and linguistic communities is "State- dependent".
  2. Religious or linguistic community which is a minority in a particular State can inherently claim protection and the right to administer and run its own educational institutions under Articles 29 and 30 of the Constitution .

The correct statement/s is/are:

- A) 1 only
- B) 2 only
- C) Both
- D) Neither 1 nor 2

41. Consider the following Statements:

**Statement I:** Defamation is a reasonable restriction on the fundamental right to freedom of speech and expression under Article 19(1) (a)

**Statement II:** The right to reputation is the inherent right under Article 19.

Which one of the following is correct with respect to the above statements?

- A) Both Statement-I and Statement-II are correct and Statement-II is the correct explanation for Statement-I.
- B) Both Statement-I and Statement-II are correct and Statement-II is not the correct explanation for Statement-I.
- C) Statement-I is correct but Statement-II is incorrect.
- D) Statement-I is incorrect but Statement-II is correct.

42. Consider the following statements.

**Statement I:** The legislature of the State otherwise provides by law, the English language shall continue to be used for those official purposes within the state.

**Statement II:** The legislature of a state may by law adopt any one or more of the languages in the use of the state or Hindi as the language to be used for all or any of the official purposes of that state.

Which one of the following is correct with respect to the above statements?

- A) Both Statement-I and Statement-II are correct and Statement-II is the correct explanation for Statement-I.
- B) Both Statement-I and Statement-II are correct and Statement-II is not the correct explanation for Statement-I.
- C) Statement-I is correct but Statement-II is incorrect.
- D) Statement-I is incorrect but Statement-II is correct.



43. Consider the following statements regarding the Payment Infrastructure Development Fund (PIDF).

1. The Ministry of Finance set up a PIDF to encourage the adoption and deployment of Point-Of-Sale devices (POS).
2. The PIDF will be governed through an advisory council and managed and administered by the RBI.
3. The fund has been created to encourage the adoption of POS machines by businesses in all states including North-eastern states.

The correct answer/s is/are:

- A) 1 only
- B) 2 and 3 only
- C) 1 and 2 only
- D) 1,2 and 3

44. Consider the following statements regarding Unified Payments Interface (UPI)

1. The UPI is a real-time payment system with a transfer limit of 1 lakh per transaction.
2. In addition to current and savings accounts, customers can link their overdraft account to UPI 2.0
3. Customers can pre-authorise a transaction and pay at a later date in UPI 2.0.
4. According to NPCI, customers can check the invoice the merchant sent before making payment.

How many statements given above are correct?

- A) Only one statement
- B) Only two statements
- C) Only three statements
- D) All the statements

45. Consider the following statements regarding GIFT City.

1. GIFT City is India's first International Financial Services Centre (IFSC) under Special Economic Zone Act, 2005.
2. This provides world class financial services only to non-residents, to the extent permissible under the current regulations, in a currency other than the domestic currency of the location where the IFSC is located.
3. GIFT is planned as a greenfield business district, to be located between Gandhinagar and Ahmedabad, to cater to financial services and IT firms looking to set up India operations.

The correct answer/s is/are:

- A) 1 only
- B) 2 and 3 only
- C) 1 and 3 only
- D) 1,2 and 3.





51. Consider the following statements:

**Assertion (A):** The axis of the Earth is inclined to the plane of the ecliptic at an angle of  $66\frac{1}{2}^\circ$ .

**Reason (R):** All the parts of the globe don't have equal day and night throughout the year.

The correct answer is

- A) A and R both correct and R is correct explanation of A
- B) A and R both correct and R is NOT correct explanation of A
- C) A is correct, but R is NOT correct
- D) A is NOT correct, but R is correct

52. Consider the following statements:

1. Every  $15^\circ$  of longitude is considered a one-time zone globally.
2. East-west stretch countries have more time zones than north-south ones.
3. The places in the west are advance in time than the places in the east.

The correct statement/s is/are:

- A) 1 and 2
- B) 1 and 3
- C) 2 only
- D) 1, 2 and 3

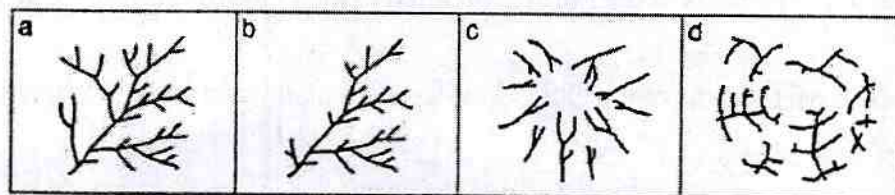
53. Consider the following pairs:

<b>Mountains</b>	<b>Period of origin</b>
1. Andes, South America	- Tertiary
2. Great dividing range, Europe	- Caledonian
3. Kjolen, Europe	- Hercynian
4. Aravallis, Asia	- Pre Cambrian

How many pairs given above are correctly matched?

- A) Only one pair
- B) Only two pairs
- C) Only three pairs
- D) All four pairs

54. Consider the following drainage pattern diagram and identify the correct match:



1. Dendritic pattern
2. Radial pattern
3. Trellis pattern
4. Annular pattern

The correct match is

- |    | a | b | c | d |
|----|---|---|---|---|
| A) | 1 | 3 | 2 | 4 |
| B) | 1 | 3 | 4 | 2 |
| C) | 3 | 1 | 4 | 2 |
| D) | 3 | 1 | 2 | 4 |

55. Which of the following lake types is called a 'dead lake'?

- A) Tom lake
- B) Paternoster lake
- C) Kettle lake
- D) Ox-bow lake

56. Consider the following statements about the Khumbu ice fall:

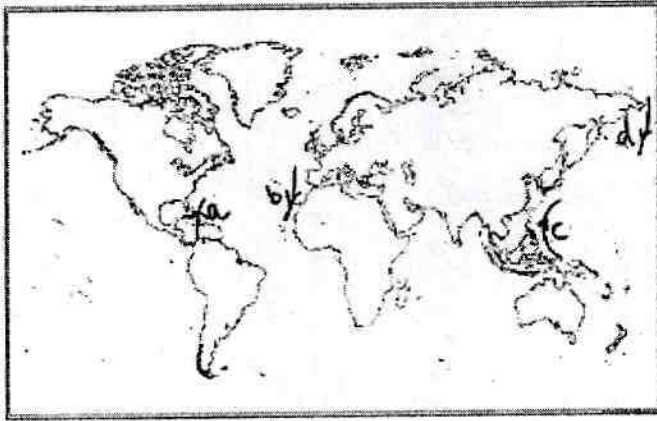
1. It is a famous track route to reach Mt. Everest.
2. The region is more pronounced by *crevasses* which make the region more hazard-prone.

The correct statement/s is/are:

- A) 1 only
- B) 2 only
- C) Both
- D) Neither 1 nor 2



57. Consider the following ocean currents diagram and identify the correct match:



1. Kuroshio current
2. Oyashio current
3. Antellies current
4. Canary current

The correct match is

	a	b	c	d
A)	4	3	2	1
B)	4	3	1	2
C)	3	4	1	2
D)	3	4	2	1

58. Which of the following correctly explains 'one-inch rainfall' measured in a rain gauge?

- A) The amount of water that would cover the ground to a depth of one inch, other than evaporated, drained off or percolated away.
- B) The amount of water covering the ground to a depth of one inch provided none evaporated, drained off or percolated away.
- C) The amount of water that would cover the ground to a depth of one inch, including evaporated but except drained off or percolated away.
- D) The amount of water that would cover the ground to a depth of one inch, including drained off or percolated away except evaporated.

59. Consider the following statements:

**Assertion (A):** The ground temperature of the forested region is lower than the open ground on the same latitude.

**Reason (R):** During the day, trees lose water by evapotranspiration, leading to cool air above the forest.

The correct answer is

- A) A and R both correct and R is correct explanation of A
- B) A and R both correct and R is NOT correct explanation of A
- C) A is correct, but R is NOT correct
- D) A is NOT correct, but R is correct

60. Which of the following pressure belts of the globe are dynamically formed?

1. Equatorial low-pressure belt
2. Sub tropical high pressure belts
3. Sub polar low pressure belts
4. Polar high pressure belts

The correct answer/s is/are

- A) 3, only
- B) 1, 2 and 3 only
- C) 1,2 and 4 only
- D) 2 and 3 only

61. Consider the following statements:

**Assertion (A):** Many savannah areas have poor lateritic soils, incapable of supporting intense crops.

**Reason (R):** Torrential rain and dry seasons lead to soil leaching and soil moisture evaporation in the savannah region.

The correct answer is

- A) A and R both correct and R is correct explanation of A
- B) A and R both correct and R is NOT correct explanation of A
- C) A is correct, but R is NOT correct
- D) A is NOT correct, but R is correct

62. Consider the following statements:

**Assertion (A):** The annual temperature range of cold deserts is larger than hot deserts.

**Reason (R):** Continentality accounts for the extreme range of temperature.

The correct answer is

- A) A and R both correct and R is correct explanation of A
- B) A and R both correct and R is NOT correct explanation of A
- C) A is correct, but R is NOT correct
- D) A is NOT correct, but R is correct

63. Which of the following are artificial lakes in India?

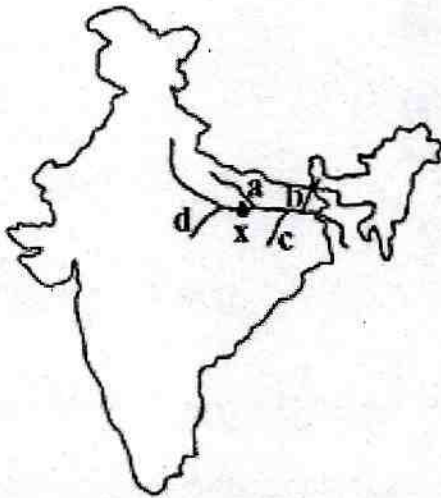
1. Pushar lake, Rajasthan
2. Himayat sagar, Telangana
3. Khecheopalri lake, Sikkim
4. Sasthamkotta lake, Kerala

The correct answers are

- A) 1, 2 and 3 only
- B) 1 and 2 only
- C) 1, 3 and 4 only
- D) All the lakes



64. Identify the rivers:  
The city marked as 'x' is Prayagraj



1. R. Mahananda
2. R. Gomati
3. R. Punpun
4. R. Betwa

The correct match is

- |    | a | b | c | d |
|----|---|---|---|---|
| A) | 1 | 2 | 3 | 4 |
| B) | 1 | 2 | 4 | 3 |
| C) | 2 | 1 | 4 | 3 |
| D) | 2 | 1 | 3 | 4 |

65. Which of the following river DOESN'T drain in the Atlantic Ocean?

- |                    |               |
|--------------------|---------------|
| A) R. Niger        | B) R. Parana  |
| C) R. St. Lawrence | D) R. Zambezi |

66. Match list 1 with list 2 and choose the correct answer from the codes below.

- | National Park | Location         |
|---------------|------------------|
| a. Tadoba     | I. Rajasthan     |
| b. Sariska    | II. Gujarat      |
| c. Vansda     | III. Maharashtra |
| d. Buxa       | IV. West Bengal  |

Codes:

- |    | a   | b  | c  | d   |
|----|-----|----|----|-----|
| A) | II  | I  | IV | III |
| B) | III | I  | II | IV  |
| C) | I   | II | IV | III |
| D) | III | IV | I  | II  |

67. Among the following fungi, which is the cause of the Irish Potato Famine?

- A) *Fusarium oxysporum*
- B) *Sclerotinia sclerotium*
- C) *Phytophthora infestans*
- D) *Sclerotium rolfsii*

68. Arrange the following International Environmental Initiatives in chronological order.

- 1. Brundtland report
- 2. Vienna Convention
- 3. Stockholm Conference
- 4. Rio Declaration

The correct order is

- A) 1, 2, 3, 4
- B) 3, 2, 1, 4
- C) 3, 4, 1, 2
- D) 1, 4, 3, 2

69. Consider the following pairs:

- 1. Mercury → Itai Itai Disease
- 2. Cadmium → Pesticides
- 3. DDT → Minamata Tragedy
- 4. Arsenic → Fertilizers

How many pairs given above are correctly matched?

- A) Only one pair
- B) Only two pairs
- C) Only three pairs
- D) All four pairs



70. Consider the following statements

1. Urban climatology refers to a specific branch of climatology concerned with interactions between urban areas and the atmosphere, their effects on one another, and the varying spatial and temporal scales at which these processes (and responses) occur.
2. Because of its role as a greenhouse gas, carbon dioxide has been described as "the leading pollutant" and "the worst climate pollutant". Carbon dioxide is a natural atmosphere component, essential for plant life and given off by the human respiratory system.
3. Water footprint measures the amount of water used to produce each of our goods and services. It can be measured for any process, like growing crops, producing clothes, fuel we use in our travels, or for a multinational company.
4. As per the 2017 Global Risks Report of the World Economic Forum, regarding the impact on humanity, the water crisis is ranked as the 3<sup>rd</sup> most important global risk. India's water footprint is 980 cubic meters per capita, contributing roughly 12 % of the world's total water footprint.

Choose the correct answer from the below-given options

- A) None of the above-given statements are true.
- B) All the above-given statements are true.
- C) Only Statements 2, 3, and 4 are true
- D) Only Statements 1, 2, and 3 are true.

71. Which of these facts is not true about the Paris Agreement?

1. Curtailing global temperature rise this century below 2 degrees Celsius, above pre-industrial levels, and also pursue efforts to limit the increase to 1.5 degrees Celsius.
  2. Conceive nationally determined contributions
  3. It intends to replace the Nagoya Protocol fully by 2020.
  4. The countries who participated in the COP24 brought out a package of implementing rules for the Paris Agreement called the Katowice Rulebook
- A) 4 only
  - B) 1 and 3
  - C) 3 only
  - D) 2 only

72. Choose the incorrect statements.

1. The Tundra and Taiga of northern Canada possess less than 12 species of trees.
2. The Temperate forests of the United States have about 35 species of trees.
3. The tropical forests of Panama have only 11 species of trees in a small area.

Select the correct answer using the code given

- A) 1 only
- B) 2 only
- C) 3 only
- D) None of the above

73. Consider the following statements:

**Assertion (A):** The Habitat conditions are determined by the latitude and altitudes.

**Reasoning(R):** Organisms require different sets of conditions for their growth and metabolism.

- A) Both A and R are True and R is the correct explanation of A.
- B) Both A and R are true but R is not the correct explanation of A.
- C) A is True but R is False.
- D) Both A and R are False.

74. Potassium chlorate decomposition occurs in the temperature range between

- A) 653-873 K
- B) 589-825 K
- C) 458-689 K
- D) 673-878 K

75. Name the twin satellites orbiting Earth, tracking the movement of water around the planet.

- A) INSAT
- B) GRACE-FO
- C) CALIPSO
- D) NEEMO



76. Consider the below two statements:

**Statement I:** The thymus is a lobed organ located near the heart and beneath the breast bone.

**Statement II:** Thymus provides micro-environments for the development and maturation of T-lymphocytes.

From the above statements, choose the correct answer from the options given below;

- A) Both Statement I and Statement II are true
- B) Statement I is correct but Statement II is false
- C) Both Statement I and Statement II are false
- D) Statement I is incorrect but Statement II is true

77. Consider the below two statements:

**Statement I:** Lyophilic sols are more stable than lyophobic sols

**Statement II:** Lyophilic colloids are extensively solvated

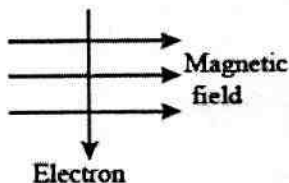
From the above statements, choose the correct answer from the options given below;

- A) Both Statement I and Statement II are true
- B) Statement I is correct but Statement II is false
- C) Both Statement I and Statement II are false
- D) Statement I is incorrect but Statement II is true

78. Which one of the bacteria is responsible for the production of methane (biogas) from the Methanogens present in the animal?

- A) Paramoecium
- B) Mycoplasma
- C) Cyanobacteria
- D) Archaeobacteria

79. An electron enters a magnetic field at right angles to it, as shown below. The direction of force (according to Fleming's left-hand rule) acting on the electron will be



- A) To the right
- B) To the left
- C) Into the page
- D) Out of the page

80. Presbyopia occurs due to the
- A) Eyeball has become too small
  - B) Elongation of the eyeball
  - C) Gradual weakening of the ciliary muscles
  - D) Excessive curvature of the eye lens
81. Consider the statement  
"Chemistry is the science of molecules and their transformations. It is the science not so much of the one hundred elements but of the infinite variety of molecules that may be built from them."  
The above Statement was given by
- A) Linus Carl Pauling
  - B) Marie Curie
  - C) Robert Bunsen
  - D) Roald Hoffmann
82. Consider the following Statement  
**Statement I:** The universal gravitational constant  $G$  is important because it determines the strength of one of the four forces in nature.  
**Statement II:** By knowing  $G$ , an accurate value for Earth's mass could finally be obtained.  
From the above statements, choose the correct answer from the options given below
- A) Both Statement I and Statement II are true
  - B) Statement I is correct but Statement II is false
  - C) Both Statement I and Statement II are false
  - D) Statement I is incorrect but Statement II is true
83. Natality refers
- A) To the number of births during a given period in the population that are added to the initial density.
  - B) To the number of deaths in the population during a given period.
  - C) To the number of individuals of the same species that have come into the habitat from elsewhere during the time period under consideration.
  - D) To the number of individuals of the population who left the habitat and went elsewhere during the time period under consideration
84. Litmus solution is a purple dye extracted from
1. Hibiscus
  2. Lichen
  3. Lotus
  4. Lily
- The correct statement/s is/are
- A) 1 and 3 only
  - B) 2 only
  - C) 3 and 4 only
  - D) 4 only



85. Consider the following pairs:

- |              |                 |
|--------------|-----------------|
| 1. Planaria  | → Budding       |
| 2. Spirogyra | → Fragmentation |
| 3. Amoeba    | → Regeneration  |
| 4. Yeast     | → Fission       |

How many pairs given above are correctly matched?

- A) Only one pair
- B) Only two pairs
- C) Only three pairs
- D) All four pairs

86. Match the following list 1 with list 2 and choose the correct answer from the codes given below

**List - 1**

- 1. Pituitary
- 2. Pancreas
- 3. Thyroid
- 4. Adrenal

**List - 2**

- i. Thyroxin
- ii. Adrenalin
- iii. Growth hormone
- iv. Insulin

Choose the correct option

- |    |     |    |    |     |
|----|-----|----|----|-----|
|    | 1   | 2  | 3  | 4   |
| A) | ii  | i  | iv | iii |
| B) | iii | i  | ii | iv  |
| C) | i   | ii | iv | iii |
| D) | iii | iv | i  | ii  |

87. Arrange the following categories on the order of mitotic cell division.

- 1. Prophase
- 2. Metaphase
- 3. Anaphase
- 4. Telophase

The correct order is

- A) 1, 2, 3, 4
- B) 3, 2, 1, 4
- C) 3, 4, 1, 2
- D) 1, 4, 3, 2

88. Consider the following statements:

1. When a ray of light travelling from a rarer medium to a denser medium slows down and bends towards the normal.
2. When it travels from a denser medium to a rarer medium, it speeds up and bends away from the normal

The correct statement/s is/are

- A) 1 only
- B) 2 only
- C) Both
- D) Neither 1 nor 2

89. When an object is kept at infinity, the nature of the image formed by the convex lens is

1. Real
2. Inverted
3. Virtual
4. Upright

The correct answer/s is/are

- A) 1 and 2 only
- B) 2 and 3 only
- C) 3 and 4 only
- D) All the above

90. Consider the following:

1. Haemophilia
2. Cystic fibrosis
3. Sickle-cell anaemia
4. Down's Syndrome

How many of the above are Mendelian Disorders?

- A) Only one
- B) Only two
- C) Only three
- D) All

91. 1. Yarlung Zangpo River acts as the actual geographical barrier between the distributions of these two species.

2. The facial colour of the Chinese Red Panda is redder than the Himalayan Red Panda.

The effective correct statement/s about the Himalayan and Chinese Red Panda is/are.

- A) 1 only
- B) 2 only
- C) 1 and 2 only
- D) None of the above



92. Consider the following statements:

1. Pitch Black is a multilateral naval exercise between the Quad partner countries.
2. The exercise aims to hone operational skills and imbibe best practices and procedures, in the maritime domain, through interaction between member countries.

Which of the above statement(s) is/are correct?

- A) 1 only
- B) 2 only
- C) Both 1 and 2
- D) Neither 1 nor 2

93. Which of the following can be identified by the Yarkovsky effect?

- A) Asteroid mapping
- B) Ocean floor Mapping
- C) Volcano interior mapping
- D) Sun surface mapping

94. What will be the correct sequence of cities on the bank of River Ganga if someone moves from east to west?

- A) Patna, Allahabad, Varanasi, Kanpur
- B) Varanasi, Patna, Allahabad, Kanpur
- C) Patna, Varanasi, Allahabad, Kanpur
- D) Varanasi, Patna, Kanpur, Allahabad

95. Consider the following statements regarding G20 grouping.

1. The European Union as a whole is a member of the G20.
2. The G20 Summit is formally known as the "Summit on Financial Markets and the World Economy".
3. The first G20 meeting occurred right after the 2012 Eurozone financial crisis.

Which of the above statements is/are correct?

- A) 1, 2
- B) 1, 3
- C) 2, 3
- D) 1, 2, 3

96. India is a member of which of the following constituents of the World Bank Group?
1. Multilateral Investment Guarantee Agency (MIGA)
  2. International Centre for Settlement of Investment Disputes (ICSID)
  3. International Development Association (IDA)
  4. International Bank for Reconstruction and Development (IBRD)
- Select the correct answer code:
- A) 1, 2, 3
  - B) 1, 3, 4
  - C) 2, 3, 4
  - D) 1, 2, 3, 4
97. Consider the following statements about Sir Creek.
1. Sir Creek is a 98-km uninhabited tidal estuary between the Rann of Kutch marshlands, opening into the Arabian Sea.
  2. It divides the Kutch region of Gujarat and the Sindh province of Pakistan.
- Select the correct code
- A) 1 only
  - B) 2 only
  - C) Both 1 and 2
  - D) Neither 1 nor 2
98. Arrange the following glaciers in decreasing order of their lengths
- A) Biafo > Hispar > Sonapani > Bara Shigri > Drang Drung
  - B) Hispar > Drang Drung > Biafo > Sonapani > Bara Shigri
  - C) Hispar > Biafo > Drang Drung > Sonapani > Bara Shigri
  - D) Biafo > Hispar > Bara Shigri > Sonapani > Brang Drung
99. The Place is known as Wagah Of Gujarat. It allows civilians to view the fenced International Border with Pakistan. The Place mentioned above is?
- A) Dwarka
  - B) Nadabet
  - C) Both A and B
  - D) None of the above
100. 1. It is a part of the Balipara-Charduar-Tawang road, one of the key strategic projects near the Chinese border.
2. It is located in the West Kameng district of Arunachal Pradesh.
3. The Border Roads Organisation is executing the project.
- Pick the Correct name of the Tunnel which refers to the above statements
- A) KIBITHOO Tunnel
  - B) SELA Tunnel
  - C) NECHIPHU tunnel
  - D) NURANANG tunnel



# ROUGH WORK

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