



# JAMMU AND KASHMIR PUBLIC SERVICE COMMISSION

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**Subject: Conduct of J&K Combined Competitive (Preliminary) Examination 2023 - Provisional Answer Key(s).**

**Notification No. PSC/Exam/S/2023/65  
Dated: 15.10.2023**

In pursuance of Rule 10(c) of the Jammu & Kashmir Public Service Commission (Conduct of Examination) Rules, 2022, as amended upto date, the Provisional Answer Key(s) of GS-I & GS-II of **Question Booklet (Series A)** pertaining to the **J&K Combined Competitive (Preliminary) Examination 2023** held on **15.10.2023** in two sessions, is hereby notified for seeking the objections from candidates.

## Provisional Answer Key (GS-I)

Test Booklet Question No. (Series A)	
Q1	D
Q2	A
Q3	B
Q4	A
Q5	C
Q6	D
Q7	A
Q8	B
Q9	C
Q10	C
Q11	B
Q12	B
Q13	A
Q14	C
Q15	D
Q16	A
Q17	B
Q18	C
Q19	B
Q20	D
Q21	B
Q22	C
Q23	A
Q24	C
Q25	B
Q26	D

Test Booklet Question No. (Series A)	
Q27	B
Q28	A
Q29	D
Q30	A
Q31	C
Q32	B
Q33	C
Q34	C
Q35	A
Q36	D
Q37	C
Q38	C
Q39	C
Q40	C
Q41	C
Q42	A
Q43	B
Q44	D
Q45	C
Q46	A
Q47	A
Q48	D
Q49	B
Q50	D
Q51	C
Q52	A

Test Booklet Question No. (Series A)	
Q53	B
Q54	A
Q55	D
Q56	C
Q57	C
Q58	B
Q59	B
Q60	D
Q61	A
Q62	A
Q63	B
Q64	D
Q65	D
Q66	B
Q67	C
Q68	B
Q69	A
Q70	B
Q71	C
Q72	C
Q73	A
Q74	A
Q75	B
Q76	A
Q77	A
Q78	D

Test Booklet Question No. (Series A)	
Q79	C
Q80	C
Q81	D
Q82	A
Q83	A
Q84	B
Q85	A
Q86	D

Test Booklet Question No. (Series A)	
Q87	A
Q88	C
Q89	A
Q90	C
Q91	C
Q92	D
Q93	A
Q94	C

Test Booklet Question No. (Series A)	
Q95	A
Q96	B
Q97	C
Q98	A
Q99	B
Q100	B

**Provisional Answer Key (GS-II)**

Test Booklet Question No. (Series A)	
Q1	A
Q2	D
Q3	B
Q4	B
Q5	D
Q6	A
Q7	C
Q8	C
Q9	B
Q10	C
Q11	B
Q12	C
Q13	C
Q14	C
Q15	D
Q16	B
Q17	B
Q18	C
Q19	B
Q20	B
Q21	C
Q22	A
Q23	B
Q24	C
Q25	A
Q26	A
Q27	B
Q28	B
Q29	C
Q30	B

Test Booklet Question No. (Series A)	
Q31	A
Q32	B
Q33	A
Q34	C
Q35	D
Q36	A
Q37	B
Q38	A
Q39	B
Q40	D
Q41	A
Q42	B
Q43	C
Q44	A
Q45	D
Q46	D
Q47	C
Q48	A
Q49	B
Q50	A
Q51	A
Q52	C
Q53	D
Q54	A
Q55	B
Q56	D
Q57	C
Q58	A
Q59	A
Q60	A

Test Booklet Question No. (Series A)	
Q61	A
Q62	B
Q63	B
Q64	B
Q65	C
Q66	B
Q67	C
Q68	D
Q69	D
Q70	C
Q71	B
Q72	A
Q73	D
Q74	D
Q75	B
Q76	C
Q77	D
Q78	C
Q79	D
Q80	A
Q81	C
Q82	C
Q83	D
Q84	A
Q85	D
Q86	C
Q87	B
Q88	D
Q89	C
Q90	B

Test Booklet Question No. (Series A)	
Q91	C
Q92	D
Q93	C
Q94	B

Test Booklet Question No. (Series A)	
Q95	C
Q96	D
Q97	A
Q98	D

Test Booklet Question No. (Series A)	
Q99	B
Q100	B

The candidates are advised to refer to **Question Booklet (Series A)** to match the corresponding question(s) in their respective Question Booklet Series and if any candidate feels that the key to any of the question(s) is/are wrong, he/she may represent on prescribed format/proforma annexed as **Annexure-A** along with the documentary proof/evidence (**hard copies only**) and fee of Rs.500/- per question in the form of Demand Draft drawn in favour of **COE, J&K PSC** (refundable in case of genuine/correct representation) to the Controller of Examinations, Jammu & Kashmir Public Service Commission, from Monday i.e. 16.10.2023 to 18.10.2023. **The candidates are further advised to clearly mention the question(s) objected to with reference to its serial number as it appears in the Question Booklet of Series A of the provisional answer key(s).**

Further, any objection/application not accompanied by the requisite Demand Draft of Rs.500/- as prescribed, shall not be considered/entertained under any circumstances. Candidates are, in their own interest, advised to adhere to these instructions and not submit any objection unaccompanied by the Demand Draft as required under extant rules.

The Commission shall not entertain any such representation(s) after the expiry of the stipulated period i.e. after 18.10.2023 (Wednesday), 05.00 pm.

The provisional key is also available on the website of the Commission <http://www.jkpsc.nic.in>.

  
**(Anil Sharma), JKAS**  
 Controller of Examinations  
 J&K Public Service Commission

No. PSC/Ex-Secy/2023/58

Dated: 15.10.2023

Copy to the: -

1. Director, Information and Public Relation, J&K for publication of the notice in all leading newspapers published from Jammu/Srinagar.
2. P.S. to Hon'ble Chairman, J&K Public Service Commission for information of the Hon'ble Chairman.
3. P.S. to Hon'ble Member, Shri \_\_\_\_\_ for information of the Hon'ble Member.
4. P. A. to Secretary, J&K Public Service Commission for information of the Secretary.
5. Main file/Stock file/Notice Board.

**Annexure-A**

Representation regarding objection(s) to any Question/Answer pertaining to the J&K Combined Competitive (Preliminary) Examination 2023 held on 15.10.2023

(NOTE: USE SEPARATE FORMS FOR SEPARATE QUESTIONS)

Paper: \_\_\_\_\_

Name of the Applicant : \_\_\_\_\_

Roll No. : \_\_\_\_\_

Correspondence Address : \_\_\_\_\_

Contact/Mobile No. : \_\_\_\_\_

Date of Application: \_\_\_\_\_ .10.2023

Demand Draft No. date : \_\_\_\_\_

Candidates Account No.(16 digit) & IFSC Code : \_\_\_\_\_

Question No. in Series A	Details of the Objection	Resource Material (copy to be enclosed)	Details of the Website (if any)

**Correct Answer/Option as per candidate :**

*AS*

**Signature of the Candidate**

**Note :** Application for each question/answer shall be made on separate page in the given format, otherwise the first question entered in the format shall only be considered.

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.

46. Consider the following statements regarding the Inverted duty structure.
1. Inverted duty structure is where the import duty on finished goods is low compared to the import duty on raw materials used in producing such finished goods.
  2. It encourages domestic manufacturing by making it more competitive against imported finished goods.
- The correct statement/s is/are:
- A) 1 only
  - B) 2 only
  - C) Both
  - D) Neither 1 nor 2
47. Consider the following statements regarding the Generalized System of Preferences (GSP).
1. The only countries that grant GSP are USA, EU and Russia.
  2. The objective of GSP was to give development support to poor countries by promoting exports from them into developed countries.
  3. Most favoured Nation (MFN) status and GSP are similar in tariff structure whether it is a developed or developing country.
- The correct answer/s is/are:
- A) 2 only
  - B) 1 and 2 only
  - C) 1 and 3 only
  - D) 1, 2 and 3
48. Which of the following biotic conservative region is NOT included in the Green-Ag project?
- A) Similipal Landscape
  - B) Chambal Landscape
  - C) Corbett-Rajaji Landscape
  - D) Sundarbans Landscape
49. An Infrastructure Investment Trust (InvIT) is a collective investment scheme, similar to a mutual fund, which enables direct investment of money from individual and institutional investors in infrastructure projects to earn a small portion of the income as a return. Which transport sector is planning to set up Infrastructure Investment Trust?
- A) Railways
  - B) Roadways
  - C) Shipping
  - D) Airways
50. Consider the following statements regarding over-the-top (OTT) platforms.
1. The first dependent Indian OTT platform was BIGFlix, launched by Reliance Entertainment in 2008.
  2. There is no regulatory mechanism by the government of India for such platforms but they function under the ambit of the Ministry of Information and Broadcasting.
  3. Each platform that has signed the self-regulation code created by the Internet and Mobile Association of India (IAMAI) will also have to set up a consumer complaints department and/or an internal committee.
- The correct answer/s is/are:
- A) 2 only
  - B) 1 and 2 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

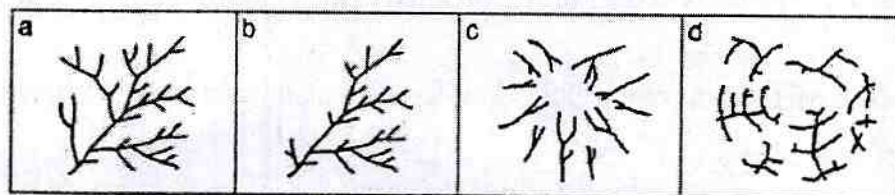
53. Consider the following pairs:

<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

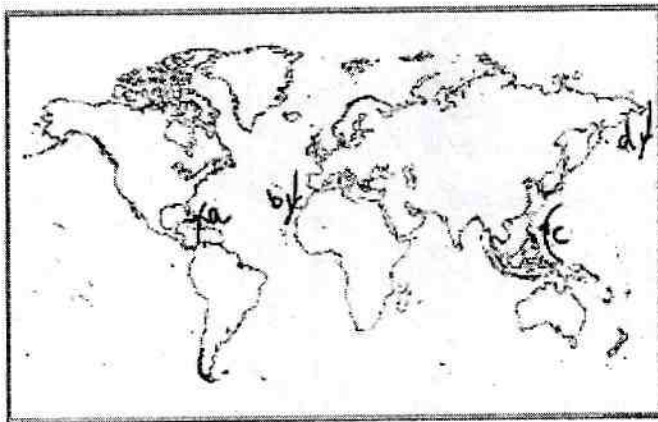
56. Consider the following statements about the Khumbu ice fall:

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?

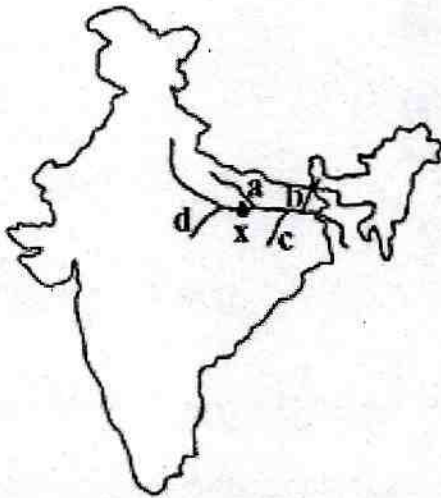
1. Pushar lake, Rajasthan
2. Himayat sagar, Telangana
3. Khecheopalri lake, Sikkim
4. Sasthamkotta lake, Kerala

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

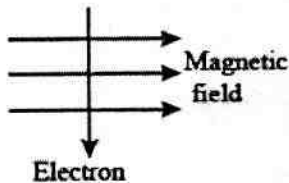
From the above statements, choose the correct answer from the options given below;

- 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

# ROUGH WORK



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**GENERAL STUDIES EXAMINATION - 2023**  
**Paper - II**  
**(92)**

**A**

**Time Allowed: Two Hours**

**Maximum Marks: 200**

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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.
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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.
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**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.

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

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### Passage for Questions (1-5)

Childhood trauma is a prevalent issue that can have long-lasting effects on an individual's mental health. Trauma can result from various experiences, including physical abuse, sexual abuse, neglect, and emotional abuse. This passage will examine the impact of childhood trauma on adult mental health.

Recent studies have found that childhood trauma is associated with an increased risk of developing mental health issues, such as depression, anxiety disorders, post-traumatic stress disorder (PTSD), and substance abuse. The effects of childhood trauma can also manifest in physical health problems, such as chronic pain, autoimmune disorders, and cardiovascular disease.

One theory to explain the link between childhood trauma and adult mental health is the "stress-diathesis model." According to this theory, childhood trauma increases an individual's stress response, making them more vulnerable to developing mental health issues later in life, especially when faced with additional stressors. This theory suggests that both environmental factors, such as childhood trauma, and genetic factors, such as a family history of mental health issues, can contribute to an individual's susceptibility to mental health problems.

Additionally, research has found that the impact of childhood trauma on mental health can be mediated by various factors, such as social support, coping mechanisms, and resilience. Children who experience trauma but have access to supportive adults or resources, such as therapy, may be more likely to develop healthy coping mechanisms and build resilience, reducing the likelihood of developing mental health issues later in life.

1. What types of experiences can result in childhood trauma, as mentioned in the passage?
  - A) Physical abuse and neglect
  - B) Physical abuse and substance abuse
  - C) Emotional abuse and cardiovascular disease
  - D) Sexual abuse and autoimmune disorders
2. According to the "stress-diathesis model" theory, why are individuals with a history of childhood trauma more vulnerable to developing mental health issues?
  - A) Childhood trauma increases genetic factors
  - B) Childhood trauma reduces stress response
  - C) Childhood trauma decreases susceptibility to stressors
  - D) Childhood trauma increases stress response
3. What are some of the mental health issues associated with childhood trauma, as mentioned in the passage?
  - A) Schizophrenia and bipolar disorder
  - B) Depression and anxiety disorders
  - C) Obsessive-compulsive disorder and phobias
  - D) Autism and attention-deficit/hyperactivity disorder (ADHD)

4. What factors can mediate the impact of childhood trauma on mental health, as discussed in the passage?
- A) Genetic factors and environmental factors
  - B) Social support, coping mechanisms, and resilience
  - C) Cardiovascular disease and autoimmune disorders
  - D) Substance abuse and post-traumatic stress disorder (PTSD)
5. Which of the following is NOT mentioned as a physical health problem associated with childhood trauma in the passage?
- A) Chronic pain
  - B) Autoimmune disorders
  - C) Cardiovascular disease
  - D) Diabetes

**Passage for Questions (6-10)**

In the realm of contemporary literature, a relatively new genre has emerged, captivating readers and challenging the boundaries of storytelling- Hydrofiction. Unlike its conventional counterparts, hydrofiction delves deep into the uncharted waters of aquatic adventures, bringing to life narratives that are submerged in a world of intrigue and mystery. This genre takes readers on an exhilarating journey through underwater landscapes, combining elements of science fiction, fantasy, and environmental awareness to create a unique reading experience.

Hydrofiction narratives often feature protagonists who navigate the enigmatic depths of oceans, seas, or even submerged cities, offering a fresh perspective on human existence. These stories frequently explore themes related to marine life, conservation, and the consequences of climate change, making them not only entertaining but also thought-provoking.

In hydrofiction, the underwater world becomes a character, with its own set of rules and challenges. Authors use vivid descriptions to transport readers to this submerged realm, where they encounter exotic creatures, lost civilizations, and uncharted territories. Whether it's exploring the mysteries of the deep sea or embarking on a perilous quest to salvage sunken treasures, hydrofiction keeps readers on the edge of their seats.

6. What is hydrofiction?
- A) A genre that explores aquatic adventures.
  - B) A type of historical fiction set in ancient civilizations.
  - C) A genre focused on outer space adventures.
  - D) A form of non-fiction writing about underwater ecosystems.



7. Which of the following themes is often explored in hydrofiction?
- A) Time travel and alternate dimensions.
  - B) Life in outer space.
  - C) Marine life, conservation, and climate change.
  - D) Fantasy worlds and magical creatures.
8. What makes hydrofiction unique compared to other genres?
- A) It focuses on historical events.
  - B) It emphasizes outer space adventures.
  - C) It takes place in underwater settings.
  - D) It features time-traveling protagonists.
9. How does hydrofiction engage readers?
- A) By exploring the mysteries of outer space.
  - B) By transporting them to a submerged realm with vivid descriptions.
  - C) By focusing on historical events.
  - D) By featuring time-traveling protagonists.
10. What role does the underwater world play in hydrofiction?
- A) It is irrelevant to the stories.
  - B) It serves as the main antagonist.
  - C) It becomes a character with its own rules and challenges.
  - D) It is merely a backdrop for the human characters.

**Passage for Questions (11-15)**

The Aurora Borealis, also known as the Northern Lights, is one of nature's most mesmerizing and enigmatic phenomena. This celestial display occurs primarily in the polar regions, where charged particles from the sun interact with the Earth's magnetic field, resulting in a breath-taking dance of colours across the night sky. While the Aurora Borealis is more commonly observed in the Arctic Circle, it can occasionally be seen in lower latitudes during periods of high solar activity.

The phenomenon gets its name from the Roman goddess of dawn, Aurora, and the Greek word for the north wind, Boreas. It is a manifestation of the sun's energy, which releases charged particles into space in a solar wind. When these particles reach the Earth, they collide with gases in the atmosphere, such as oxygen and nitrogen. These collisions excite the atoms and molecules in the atmosphere, causing them to emit light of various colours, creating the dazzling display we associate with the Northern Lights.

The colours of the Aurora Borealis depend on the type of gas particles involved in the collisions. Oxygen produces red and green hues, while nitrogen can create purples, blues, and pinks. The exact colours and patterns of the Northern Lights vary from one display to another, making each sighting a unique and awe-inspiring experience.

11. What is the primary cause of the Aurora Borealis?
  - A) Reflection of moonlight
  - B) Collision of charged solar particles with Earth's atmosphere
  - C) Magnetic attraction between the Earth and the sun
  - D) Refraction of sunlight through ice crystals
  
12. Which goddess is the Aurora Borealis named after?
  - A) Venus
  - B) Athena
  - C) Aurora
  - D) Diana
  
13. What determines the colours of the Aurora Borealis?
  - A) The moon's position
  - B) The type of gases in Earth's core
  - C) The type of gas particles in the atmosphere
  - D) The Earth's distance from the sun
  
14. In which geographical region is the Aurora Borealis most observed?
  - A) Equator
  - B) Tropics
  - C) Polar regions
  - D) Temperate zones
  
15. What causes the variations in the colours and patterns of the Northern Lights?
  - A) Changes in Earth's gravitational field
  - B) The rotation of the Earth
  - C) Differences in atmospheric pressure
  - D) Differences in the types of gas particles and their energy levels

### Passage for Questions (16-20)

Green tourism, a burgeoning trend in the travel industry, signifies a profound shift in how we experience the world. With its roots deeply embedded in sustainability and environmental consciousness, it's more than just a vacation; it's a commitment to minimizing the deleterious impacts of travel while nurturing the environment. In recent years, green tourism has garnered immense traction among discerning travellers cognizant of the imperativeness of preserving our planet for posterity.

At its core, green tourism beckons travellers to make astute, eco-conscious choices throughout their journeys. This entails selecting eco-friendly accommodations, embracing public transport, adhering to zero-waste principles, and venerating local cultures and traditions. It champions the preservation of pristine ecosystems, biodiversity, and the judicious exploitation of resources.

The guiding principle here is "leave no trace" – a resounding imperative for travellers. Green tourists revel in pursuits such as wilderness trekking, avian observation, and responsible wildlife encounters, thereby fostering a harmonious coexistence with nature.

Furthermore, green tourism is a powerful socioeconomic catalyst for indigenous communities. By endorsing eco-resorts, local craftsmanship, and community-based tourism ventures, travellers galvanize regional economies. The confluence of economic growth, poverty mitigation, and the safeguarding of natural and cultural heritage epitomizes the tenets of green tourism.

Yet, challenges abound. Striking an equilibrium between tourism expansion and ecological preservation is a precarious act. Over-tourism and resource exploitation are ominous spectres. Stringent regulations and unwavering commitment to sustainable practices are sine qua non for addressing these conundrums.

16. Which fundamental shift characterizes green tourism?
- A) A focus on luxury travel experiences
  - B) An emphasis on environmental sustainability
  - C) A preference for adventurous escapades
  - D) A disregard for local cultures and traditions
17. What does the guiding principle of "leave no trace" in green tourism imply?
- A) Leaving a significant impact on the environment
  - B) Encouraging travellers to embrace eco-conscious choices
  - C) Ensuring that travellers leave visible marks on nature
  - D) Advocating for the expansion of tourism

18. Which of the following activities is NOT typically associated with green tourism?
- A) Wilderness trekking
  - B) Avian observation
  - C) Helicopter sightseeing tours
  - D) Responsible wildlife encounters
19. What does green tourism contribute to local communities?
- A) Increased pollution and overcrowding
  - B) Poverty reduction and economic support
  - C) Excessive resource consumption
  - D) A disregard for cultural heritage
20. What primary challenge does green tourism face?
- A) Maximizing profits for large corporations
  - B) Striking a balance between tourism growth and ecological preservation
  - C) Encouraging travellers to consume resources excessively
  - D) Disregarding environmental concerns for the sake of tourism expansion

**Passage for Questions (21-25)**

Holistic wellbeing is a multifaceted concept that extends beyond the superficial notions of health. It delves into the intricate web of interconnected dimensions that make up our overall state of being. One of the key principles of holistic wellbeing is the idea of “integrative vitality,” which underscores the importance of harmonizing physical, mental, emotional, and spiritual health.

In the pursuit of holistic wellbeing, it’s vital to understand the role of “holistic triage.” This concept involves assessing the various dimensions of wellbeing and identifying the most critical one to focus on at any given time. For instance, in times of high stress, prioritizing emotional wellbeing might be essential, while during an illness, physical health could take precedence.

A fascinating aspect of holistic wellbeing is the field of “psychoneuroimmunology,” which explores the connection between psychological factors, the nervous system, and the immune system. Mindful eating, a practice where individuals pay full attention to their eating experience, falls under this umbrella. It’s believed to have a profound impact on overall health by reducing stress and promoting positive physiological responses.

Salutogenesis, another critical concept in the realm of holistic wellbeing, shifts the focus from disease prevention to understanding the origins and maintenance of health. It asks questions about what keeps individuals healthy rather than what makes them sick, emphasizing the importance of a proactive approach to wellbeing.

Lastly, achieving a state of “flow” is often considered a pinnacle of holistic wellbeing. This term describes the feeling of complete absorption and focused attention in an activity, where time seems to vanish. Activities that induce a state of flow, such as meditation or engaging in creative pursuits, can significantly contribute to an individual’s overall sense of balance and contentment.

21. Which term best describes the interconnectedness and harmony among the dimensions of holistic wellbeing in the passage?
  - A) Holistic balance
  - B) Synergistic wellness
  - C) Integrative vitality
  - D) Comprehensive health
  
22. In the context of holistic wellbeing, what is the primary role of the “holistic triage”?
  - A) Identifying the most critical dimension to focus on
  - B) Balancing all dimensions equally
  - C) Prioritizing physical health over mental and emotional health
  - D) Diagnosing spiritual imbalances
  
23. Which practice involves the process of “psychoneuroimmunology,” contributing significantly to holistic wellbeing according to the passage?
  - A) Acupuncture
  - B) Mindful eating
  - C) Pranayama
  - D) Neurofeedback
  
24. In holistic wellbeing, what does “salutogenesis” primarily focus on promoting according to the passage?
  - A) The prevention of diseases
  - B) The creation of a healthy lifestyle
  - C) The origin and maintenance of health
  - D) The treatment of psychological disorders
  
25. What is the term for a state of complete absorption and focused attention often achieved through activities like meditation or artistic creation, contributing to holistic wellbeing according to the passage?
  - A) Flow
  - B) Tranquility
  - C) Zenith
  - D) Equilibrium

### Passage for Questions (26-30)

Silk, an embodiment of luxury and artistry, weaves itself into the very fabric of Indian culture. The artisans who breathe life into silk masterpieces are the unsung heroes of our heritage. They don't just craft textiles; they create history. Let's delve deeper into this world of Indian silk and the exceptional artisans behind it.

In the heart of Gujarat, the Patola silk tradition has witnessed a resurgence, thanks to the unwavering commitment of individuals like Gajam Govardhana. These double ikat sarees, with their symmetrical patterns, require intricate precision. Govardhana's dedication to preserving this dying art form is a testament to his love for craftsmanship.

Ahimsa silk, often referred to as "peace silk," revolutionizes traditional sericulture. In this process, artisans prioritize the ethical treatment of silkworms, allowing them to complete their life cycle. Such artisans are driven not only by their creativity but also by their respect for all living beings.

The Mysore Silk industry in Karnataka, known for its lightweight, pastel-hued sarees, is a testimony to the fusion of tradition and innovation. The artisans here blend centuries-old techniques with contemporary designs, crafting sarees that are a bridge between timeless elegance and modern style.

Hyderabad's Dharmavaram silk sarees, featuring rich colours and striking contrast borders, are exquisite creations that reflect the meticulous craftsmanship of artisans. These sarees are more than just garments; they are works of art that encapsulate centuries of tradition. Chanderi silk, a symbol of opulence, is woven with real gold and silver threads, elevating it to a realm of luxury. In Madhya Pradesh, artisans skilfully combine ancient motifs with modern aesthetics, ensuring Chanderi silk remains the epitome of elegance.

26. Who is responsible for the revival of the intricate Patola silk tradition in Gujarat?
- A) Gajam Govardhana
  - B) Sabyasachi Mukherjee
  - C) Raghavendra Rathore
  - D) Tarun Tahiliani
27. What is the distinctive feature of Ahimsa silk?
- A) It is entirely handwoven.
  - B) It prioritizes ethical treatment of silkworms.
  - C) It is known for its vibrant colours.
  - D) It is produced using organic dyes.
28. The Mysore Silk industry is known for:
- A) Heavyweight sarees in bold colours.
  - B) Lightweight sarees in pastel shades.
  - C) Experimental fusion designs.
  - D) Incorporating intricate embroidery.

29. Dharmavaram silk sarees are celebrated for their:
- A) Subtle and understated colours.
  - B) Intricate hand-painted designs.
  - C) Rich colours and striking contrast borders.
  - D) Traditional tie-dye patterns.
30. What sets Chanderi silk apart from other silk varieties?
- A) It is entirely hand-painted with intricate designs.
  - B) It is woven with real gold and silver threads.
  - C) It is made from a blend of silk and wool.
  - D) It is known for its eco-friendly production methods.

**Passage for Questions (31-35)**

An unchecked ego harms us. In our eagerness to present ourselves as the greatest and smartest, we hide our true natures. It is a complex stew of who we are, who we want to be, how we hope to be seen and what we are feeling in any given moment. We are a certain person at home, alone, but we present the world with another version of ourselves. Ideally, the only difference between the two is that our public persona is working harder to be considerate, attentive, and generous. But sometimes our egos intrude. Insecurities make us want to convince ourselves and everyone else that we're special, so we contrive a dishonest version of ourselves in order to appear more knowledgeable, more accomplished, and merely confident. We present this inflated self to others, and we do everything we can to protect it: the self we want others to perceive. Fourth-century monk Evagrius Ponticus (also called Evagrius the Solitary, because sometimes monks get cool nicknames) wrote that pride is "the cause of the most damaging fall for the soul."

Vanity and ego go hand in hand. We put enormous effort into polishing the appearance of the self we present to the world. When we dress and groom for ourselves, it is because we want to feel comfortable and appropriate (easily achieved through a daily "uniform") and even because we appreciate the color or style of certain clothes. But the ego wants more-it wants us to get attention for how we look, a big reaction, praise. It finds confidence and joy in impressing others. There is a meme that shows Warren Buffett and Bill Gates standing side by side. The caption reads, "\$162 Billion in one photo, and not a Gucci belt in sight." I have nothing against Gucci belts, but the point is that if you are satisfied with who you are, you don't need to prove your worth to anyone else.

31. Which of the following is the most suitable Title for this passage?
- A) The Ego is a Mask
  - B) Ego and Vanity
  - C) Starve your ego and Feed your soul
  - D) Big Egos have little Ears

32. What do you infer from the above passage? (91-21)
- A) You are who you are when everyone is watching.
  - B) Don't let your ego overtake your original self.
  - C) Only a life lived for others is a life worthwhile.
  - D) The great prison people live in, is the fear of what other people think.

33. What do you understand by the term "Contrive"?

- A) Fabricate
- B) Destroy
- C) Natural
- D) Raze

34. Consider the following statements

1. Insecurities make us want to convince ourselves and everyone else that we're special.
2. Insecurity leads to contriving.

Which of the above statements are true

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

35. Which of the following means Vanity?

- A) Timidity
- B) Sacrifice
- C) Humility
- D) Excessive self-pride



**Passage for Questions (36-40)**

My dear Indira, On your birthday you have been in the habit of receiving presents and good wishes. Good wishes you will still have in full measure, but what present can I send you from Naini Prison? My presents cannot be very material or solid. They can be of the mind and spirit. Things that even the high walls of prison cannot stop.

You know sweetheart, how I dislike sermonising and doling out good advice. I have always thought that the best way to find out what is right and what is not right, what should be done and what should not be done, is not by giving a sermon, but by talking and discussing, and out of discussion sometimes a little bit of truth comes out. I have liked my talks with you and we have discussed many things, but the world is wide and beyond our world lie other wonderful and mysterious worlds. None of us need ever be bored or imagine that we have learned everything worth learning and become very wise. But what am I to do then? A letter can hardly take the place of a talk; at best it is a one-sided affair. Imagine that I have made a suggestion to you for you to think over, as if we really were having a talk. In history we read of great periods in the life of nations, of great men and women. Do you remember how fascinated you were when you first read the story of Joan of Arc, and how your ambition was to be something like her? Ordinary men and women are not usually heroic. They think of their bread and butter, of their children, of their household worries and the like. But a time comes when a whole people become interested in a great cause. History helps even simple, ordinary men and women to become heroes. Great leaders have something in them which inspires a whole people and makes them do great deeds. In India, a great leader, full of love for all who suffer and eager to help them, has inspired our people to great actions and noble sacrifices. He has helped to make the starving, the poor and the oppressed free and happy. Bapuji is in prison, but the magic of his message has stolen the hearts of India's millions. Men and women, and even little children, come out of their little shells and become India's soldiers of freedom. In India today we are making history, and you and I are fortunate to see this happening before our eyes and to take some part ourselves in this great drama. If we are to be India's soldiers, we have to respect India's honour, and that honour is a sacred trust. It is no easy matter to decide what is right and what is not. One little test I shall ask you to apply whenever you are in doubt. Never do anything in secret or anything that you would wish to hide. The desire to hide anything means you are afraid, and fear is bad and unworthy of you. Be brave, and all the rest follows.

36. From which prison did Nehru write this letter?

- A) Central Prison, Naini
- B) Central Prison, Ujjain
- C) Central Prison, Gorakhpur
- D) Central Prison, Varanasi

37. Who is addressed as 'Bapuji'?

- A) Neta ii
- B) Gandhiji
- C) Rajaji
- D) Nehruji

38. \_\_\_\_\_ makes them do great deeds

Find out the meaning of the underlined word

- A) Brave act
- B) Benefit
- C) Behaviour
- D) Misconduct

39. Choose the meaning of the word, 'serene'

- A) Unafraid
- B) Peaceful
- C) Nervous
- D) Kind

40. \_\_\_\_\_ afraid, serene and unruffled.

The Synonym of the underlined word is

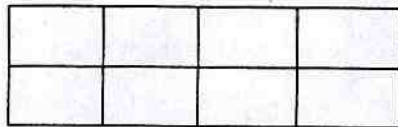
- A) Coward
- B) Nervous
- C) Worried
- D) Not-nervous

41. Which among the following can be the unit digit of one more than the square of a prime number?
- A) 5
  - B) 3
  - C) 9
  - D) 7
42. ABCD is four digit number. In which each letter indicates a different digit. Nine times of this number is another four digit number DCBA. What is the digit value of the letter C?
- A) 1
  - B) 8
  - C) 2
  - D) 3
43. The length of the sides of a square shape land is 45 meters. Poles are to be fixed along its sides with 15 meters distance. What is the number of poles needed?
- A) 16
  - B) 15
  - C) 12
  - D) 18
44. Which among the following is greatest?
- A)  $3^{30}$
  - B)  $2^{45}$
  - C)  $5^{20}$
  - D)  $6^{15}$
45. Which of the following fraction is Greatest
- $\frac{9}{25}, \frac{7}{20}, \frac{11}{30}, \frac{5}{12}$ ?
- A)  $\frac{2}{25}$
  - B)  $\frac{7}{20}$
  - C)  $\frac{11}{30}$
  - D)  $\frac{5}{12}$

46. A bag contains Rs.2 coins, Rs.5 coins and Rs.10 rupee coins, whose counts are in the ratio 5:4:2. The total amount in the bag are Rs. 500. Then find the number of Rs.5 coins in the bag.
- A) 32  
B) 20  
C) 28  
D) 40
47. If a carton containing 24 glass is dropped, which of the following cannot be the ratio of unbroken glasses to broken glasses?
- A) 2 : 1  
B) 3 : 1  
C) 4 : 1  
D) 5 : 1
48. A invested Rs. 40,000 in a business. After a few months, B joined him with Rs. 60,000. At the end of the year, the total profit was divided between them in the ratio of 1 : 2. After how many months did B join?
- A) 3 months  
B) 4 months  
C) 5 months  
D) 2 months
49. 60% of the speed of a boat moving downstream is equal to 80% of the speed of that boat moving upstream in that river. If the speed of the river is 8Kmph then what is the speed of the boat ?
- A) 80kmph  
B) 56 kmph  
C) 70kmph  
D) 60kmph
50. What is the single discount equal to three successive discounts of 20%, 44% and 25%
- A) 66.4 %  
B) 33.6 %  
C) 89 %  
D) 76 %

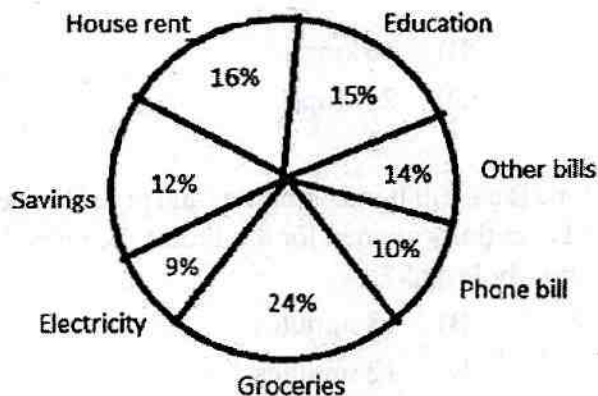
51. The selling prices of two products are equal. One product sold at 30 % profit and the other product sold at 20% profit. What is the overall profit in this transaction?
- A) 24.8%  
B) 25%  
C) 21%  
D) 50%
52. A man sold a product at 12.5 % loss for Rs. 6300. At what price does he have to sell the product to gain 12.5%?
- A) Rs. 9800  
B) Rs. 5400  
C) Rs. 8100  
D) Rs. 8400
53. A and B run around a circular ground at 4 m/s and 5m/s respectively from same point in opposite directions. How many times will they meet in 5 minutes after they start. If the circumference of the ground is 450 meters?
- A) 5  
B) 4  
C) 8  
D) 6
54. A can complete a work in 12 days. A is twice as efficient as B. In how many days A and B together can complete the work?
- A) 8 days  
B) 9 days  
C)  $8 \frac{1}{3}$  days  
D)  $9 \frac{2}{5}$  days
55. In a factory the efficiency of all workers is equal. To complete a work, one worker works on the first day, two workers on 2<sup>nd</sup> day, 3 workers on 3<sup>rd</sup> day and so on. The work completed in 15 days. In how many days the work will be completed, if only 12 workers work on it every day?
- A) 20 days  
B) 10 days  
C) 21 days  
D) 15 days

56. What is the sum of all odd prime numbers which are less than 20?
- A) 74  
B) 77  
C) 81  
D) 75
57. In how many ways 15 identical balls can be kept in three baskets such that each basket has at least one ball?
- A) 60  
B) 30  
C) 91  
D) 43
58. In how many ways the letters of the word 'ORANGE' can be arranged, so that the vowels are always alternate?
- A) 72  
B) 240  
C) 720  
D) 120
59. What is the number of rectangles in the below picture?



- A) 15  
B) 24  
C) 30  
D) 36
60. A coin was tossed 4 times successively. What is the probability that the result in the coin is alternate?
- A)  $1/8$   
B)  $1/7$   
C)  $3/8$   
D)  $2/7$

61. 6 boys A, B, C, D, E, and F are sits around a circular table. What is the probability that exactly two boys sit in between A and B?
- A)  $\frac{2}{5}$   
 B)  $\frac{1}{6}$   
 C)  $\frac{1}{3}$   
 D)  $\frac{5}{6}$
62. The inner dimension of a tank are  $1.2\text{m} \times 80\text{cm} \times 5\text{m}$ . What is the capacity of the tank?
- A) 48000 liters  
 B) 4800 liters  
 C) 480 liters  
 D) 5000 liters
63. Directions for the questions: Select from one of the given choices.  
 Is 'X' a perfect square?
- I. The unit digit of x is 6.  
 II. The next digit to the unit digit is even.
- A) If statement I alone sufficient to answer the question and II is not sufficient or if statement II alone sufficient to answer the question and I is not sufficient  
 B) If Both I and II together sufficient to answer the question.  
 C) If Neither I nor II alone is sufficient to answer the question.  
 D) If Either I or II alone is sufficient to answer the question.
64. Consider the following chart and answer the following. The monthly salary of a man is Rs. 50000. The spending pattern per month of the man is given in the picture



What is the total expenditure of the man on house rent and electricity together?

- A) 15000  
 B) 12500  
 C) 12000  
 D) 18000





70. In an isosceles triangle all the three interior angles are prime numbers. What is the value of the largest interior angle?
- A)  $149^\circ$
  - B)  $113^\circ$
  - C)  $89^\circ$
  - D)  $101^\circ$
71. Select the related word/letters/number from the given alternatives.  
CUBE : 16 :: SPHERE : ?
- A) 81
  - B) 36
  - C) 50
  - D) 71
72. Complete the given Series:  
5, 3, 10, 9, 20, 27, 40, 81 ?
- A) 80
  - B) 88
  - C) 91
  - D) 166
73. AB3, EF11, IJ19, ?
- A) MN25
  - B) OP31
  - C) OP29
  - D) MN29
74. Complete the Series:  
CARE, AREC, RECA, \_\_\_\_\_
- A) ARCE
  - B) RACE
  - C) EARC
  - D) ECAR
75. Pointing to a person, Madhan said, "His only brother is the father of my son's father".  
How is the person related to Madhan?
- A) Cousin
  - B) Uncle
  - C) Brother
  - D) Son

76. Directions: In a family there are 8 members P, Q, R, S, T, U, V and W. 8 information points are given below about the family. Based on below information answer the following question

1. P is mother of R
2. U is wife of R
3. S is the only brother of R
4. T is wife of S
5. T is daughter-in-law of Q
6. W is sister of V
7. U is mother of V
8. Q is husband of P

How is Q related to U?

- A) Father
- B) Brother
- C) Father-in-law
- D) Brother-in-law

77. Which among the following years has the same calendar of 2023 for the whole year?

- A) 2030
- B) 2029
- C) 2058
- D) 2034

78. If 23<sup>rd</sup> March 2027 is Wednesday, what will be the weekday of 23<sup>rd</sup> March 2028?

- A) Thursday
- B) Tuesday
- C) Friday
- D) Sunday

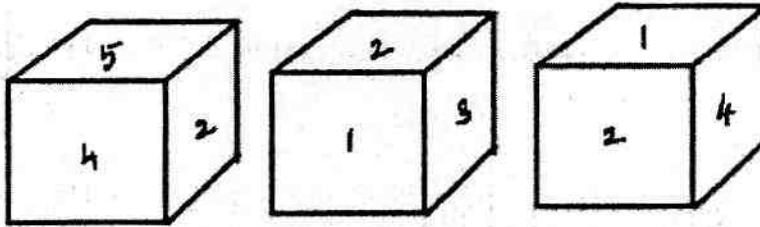
79. An analog clock shows 5 : 24 Pm. What is the time in its mirror image, If the mirror hung vertically against the clock?

- A) 6 : 24 PM
- B) 7 : 36 PM
- C) 7 : 38 PM
- D) 6 : 36 PM

80. In a certain code, If 'TABLE' is written as '&\*@S#' 'CHAIR' is written as '%^\*+!' Then what is the code for 'TEACHER' = ?
- A) &#\*%^#!  
 B) &#^@\*\$%  
 C) &#@\*\$%^  
 D) &#\*%#^!

81. What is the minimum number of cuts needed to make a cube into 60 equal size pieces?
- A) 8 cuts  
 B) 12 cuts  
 C) 9 cuts  
 D) 10 cuts

82. Different views of a fair die are given. Based on the views given find the number opposite to 6?



- A) 3  
 B) 4  
 C) 2  
 D) 5
83. A boy started from his home and walked 15 meters towards the East. After that he turned left and walked 5 meters. Then he turned left again and walked 6 meters. Then again, he took a left and walked 17 meters. There he stops. What is the shortest distance is he now from his home?
- A) 13 meters  
 B) 37 meters  
 C) 39 meters  
 D) 15 meters

84. A, B, C, D, E, F, G, H and P are nine boys who played a ball catching game. Eight of the nine stand around P at vertices of an octagon shape. P is at the center of the octagon and all the others stand facing P. A is to the north of P and E is to the west of P. D is opposite of E and C is south of A. B is southeast of P and H is southwest of F.

Who is third to the left of D?

- A) H
- B) B
- C) A
- D) C

85. Directions: Five friends P, Q, R, S, and T each brings one among the following food to their friends one day each. which are, Curd rice, Tomato rice, Lemon rice, Poori or Chapati. One day a week, Monday through Friday.

- i. T does not bring Poori and does not bring it on Tuesday.
- ii. Q bring Chapati and does not bring it on Monday or Friday
- iii. The friends ate Curd rice on Thursday
- iv. R does not bring poori, and he bring his food on Wednesday
- v. Lemon rice was brought on Friday and not by S.
- vi. P bring his food on Monday.

Who brought the food on Thursday?

- A) T
- B) p
- C) Q
- D) S

86. In each question, a set of six statements is given, followed by four answer choices. Each of the answer choices has a combination of three statements from the given set of six statements. You are required to identify the answer choice in which the third statement logically follows the first two in the same order.

- a. All Train are Bus.
- b. No Bus is a Car.
- c. No Train is a Bus
- d. Some Car are Bus
- e. Some Train are animal.
- f. Some train are not cars.

- A) b d e
- B) a c b
- C) a b f
- D) c d f

87. In the following questions, the symbol \$, @, #, © and % are used with the following meanings as illustrated below

'A \$ B' means A is smaller than or equal to B'

'A @ B' means A is greater than B'.

'A # B' means A is greater than or equal to B'.

'A © B' means A is smaller than B'.

'A % B' means A is equal to B'.

Assume the given statements to be true, find which of the three Conclusions I, II and III given below them is/are definitely true and give your answer accordingly?

Statements : S \$ T, T # M, M @ N, N © O

Conclusions :

I. N © T

II. O @ T

III. S \$ M

A) None is true

B) Only I is true

C) Only II is true

D) Only III is true

88. How many such pairs of letters are there in the word QUESTION each of which has as many letters between them in the word as in the 26 English alphabet in any direction?

A) Four

B) Five

C) Two

D) Three

89. In a family of six members P, Q, R, S, T, and M only one married couple. Study the following information carefully about the family and answer the questions given below:

i. P is father of Q.

ii. R is brother of S.

iii. T is son of P.

iv. S is daughter of Q.

v. M is mother of R.

How is T related to M?

A) wife

B) Sister-in-law

C) Brother-in-law

D) Husband

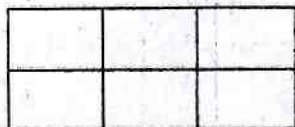
90. In a Queue, The position of Vijay is 12<sup>th</sup> from the front and 7<sup>th</sup> from the last. How many persons are there in the queue?
- A) 19
  - B) 18
  - C) 17
  - D) 20

91. In an examination the rank of Antony is 7<sup>th</sup> among the boys and 12<sup>th</sup> among the total number of students. Rank of Manisha is 9<sup>th</sup> among the girls and 16<sup>th</sup> among the total students. The total number of students in the class is 30. And no student got the same rank in the class.

If the students are arranged based on their ranks how many boys are between Antony and Manisha?

- A) 3
  - B) 4
  - C) 0
  - D) Cannot say
92. In a college party, 5 boys are sitting in a row. N is to the left of K and to the right of M. Q is sitting to the right of L but to the left of M, Who is sitting in the middle?
- A) M
  - B) R
  - C) P
  - D) K

93. What is the number of rectangles in the below image?



- A) 12
- B) 14
- C) 15
- D) 18

94. How many Instances are there in the following number sequence such that An odd number followed by and preceded by Even number.

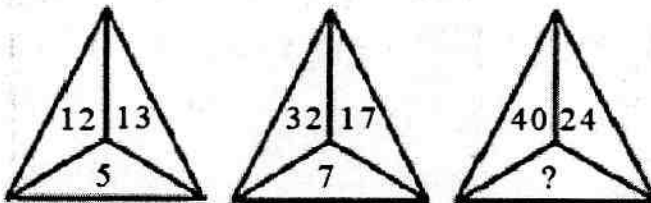
2 3 6 8 1 7 3 9 7 5 3 4 6 8 2 4 7 8 4 1 3 1 2 4 6 7

- A) Three  
B) Two  
C) Four  
D) One
95. How many leap years between the years 2090 and 2125?
- A) 9 leap years  
B) 10 leap years  
C) 8 leap years  
D) 12 leap years

96. Find the wrong number in the below number series:

9, 7, 16, 23, 39, 62, 105, 163

- A) 16  
B) 39  
C) 7  
D) 105
97. Numbers are filled in the first two images follows a particular logic. With the same logic Find the missing number in the third picture.

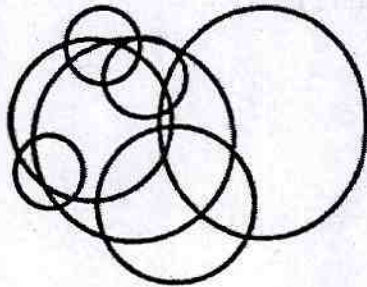


- A) 8  
B) 9  
C) 12  
D) 4
- (92 - II) (A) (27) [P.T.O.]

98. How many such pairs of letters are there in the word INFORMATION each of which has as many letters between them in the word as in the 26 English alphabet in any direction?

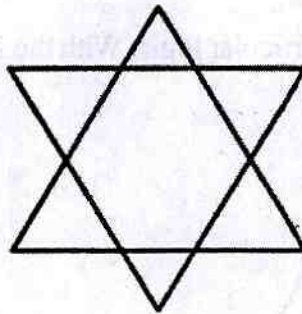
- A) Three
- B) One
- C) Two
- D) NONE

99. What is the minimum possible straight lines are needed to draw this below image?



- A) 8
- B) 7
- C) 6
- D) 9

100. Find the number of triangles in this image



- A) 10
- B) 8
- C) 9
- D) 12



# ROUGH WORK

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