PART - I
SECTION – I : ENGLISH

1. Rita and I are going to the park. Would you like to come with _____ ?
   - (A) them
   - (B) we
   - (C) they
   - (D) us ✓

2. Choose the correct verb to complete the sentence :
   "If he _____ earlier, he wouldn't have missed the train."
   - (A) leaves
   - (B) left
   - (C) had left ✓
   - (D) leaving

3. Choose the correct passive voice form of the following sentence :
   She will have finished the report by tomorrow.
   - (A) The report will be finished by her by tomorrow.
   - (B) The report had been finished by her by tomorrow.
   - (C) The report is finished by her tomorrow.
   - (D) The report will have been finished by her by tomorrow. ✓

4. Which pair of words correctly shows the singular and plural form, respectively ?
   - (A) child, childs
   - (B) foot, feets
   - (C) knife, knives ✓
   - (D) mouse, mouses

5. Convert the following passive voice sentence to active voice :
   The rules should be followed by everyone.
   - (A) Everyone should follow the rules. ✓
   - (B) Everyone must follow the rules.
   - (C) Everyone followed the rules.
   - (D) Following the rules is essential for everyone.

6. Select the sentence that is correctly constructed and maintains parallelism :
   - (A) She likes reading novels, to paint, and listening to music.
   - (B) She likes to read novels, painting, and to listen to music.
   - (C) She likes reading novels, painting, and listening to music. ✓
   - (D) She likes to reading novels, to painting, and to listening music.

7. The following four sentences (P, Q, R, S) are jumbled. Rearrange them in the correct order to form meaningful paragraph.
   - P. Before setting out, they carried a few snacks, bottles of water, and a map to guide them.
   - Q. On a bright sunny morning, a group of children planned an adventure in the nearby wood

P. Before setting out, they carried a few snacks, bottles of water, and a map to guide them.
Q. On a bright sunny morning, a group of children planned an adventure in the nearby wood
R. During their walk, they admired the chirping birds and the vivid flowers along the path.
S. At last, they reached a quiet open space where they relaxed and enjoyed their picnic.

Choices :

(A) PQRS   (B) QPRS.   (C) QRPS ✓   (D) QSRP

8. Choose the correct form to complete the sentence :
"Of all the students in the class, Rina is the _____ at solving complex puzzles."
(A) more intelligent   (B) most intelligent ✓
(C) intelligenter   (D) more intelligenter

9. To hit the nail on the head
What does the phrase mean ?
(A) To make a careless mistake
(B) To get hurt accidentally
(C) To describe exactly what is causing a situation or problem ✓
(D) To start something without planning

10. Choose the correct option to complete the sentence :
"You're coming to the party, _____ ?"
(A) aren't you ✓   (B) is you   (C) do you   (D) didn't you

1. Convert the following sentence to active voice :
"The homework was completed by the students yesterday."
(A) The students will complete the homework yesterday.
(B) The students completed the homework yesterday. ✓
(C) The students have completed the homework yesterday.
(D) The students complete the homework yesterday.

2. Identify the proper noun in the following sentence :
"Mount Everest is the highest peak in the world."
(A) peak   (B) world   (C) Mount Everest ✓   (D) highest

3. Identify the correctly used adjective in the sentence :

3. Identify the correctly used adjective in the sentence :
The committee found the solution more effective than the previous one.
(A) committee   (B) solution   (C) effective ✓   (D) previous

. Choose the word that is the most appropriate antonym of "Ostentatious" :
(A) Showy   (B) Modest ✓   (C) Extravagant   (D) Pretentious

. Identify the sentence that has an error in gender usage :
(A) The duke and his duchess attended the ceremony.
(B) The bride and the groom were welcomed warmly.
(C) The lioness protected his cubs fiercely. ✓
(D) The hostess greeted her guests politely.

16. Change to reported speech :
He said, "I will call you tomorrow."
(A) He said that he would call me the next day. ✓
(B) He said that he will call me tomorrow.
(C) He said that he calls me tomorrow.
(D) He said that he would call me tomorrow.

17. Choose the correct pronoun to complete the sentence :
Riya and I went to the market. _____ bought some fruits.
(A) He   (B) She   (C) They   (D) We ✓

18. Choose the correct tense :
"I _____ to the market yesterday."
(A) go   (B) going   (C) will go   (D) went ✓

19. Select the interrogative sentence in wh-form :
(A) She sings beautifully.
(B) Does she sing beautifully ?
(C) Why does she sing beautifully ? ✓
(D) She does not sing beautifully.

20. Choose the correct word to complete the sentence :
"Please _____ me how to reach the station."
(A) advise ✓   (B) advisee   (C) advice   (D) advised

21. Identify the type of sentence :

(A) advise   (B) advisee   (C) advice   (D) advised

21. Identify the type of sentence :
"What a beautiful painting this is!"
(A) Declarative sentence   (B) Interrogative sentence
(C) Imperative sentence   (D) Exclamatory sentence ✓

22. Choose the word closest in meaning to "Obsolete" :
(A) Modern   (B) Current   (C) Useful   (D) Outdated ✓

23. Burning the midnight oil
What does this expression refer to ?
(A) Wasting time on useless work   (B) Celebrating late at night
(C) Using too many resources   (D) Working or studying late into the night ✓

24. Choose the correct determiner :
I have read _____ books about space travel.
(A) many ✓   (B) much   (C) little   (D) fewest

35G-INH-CIX-25/A

25. Choose the correct verb to complete the sentence :
"Rita and her friends _____ going to the park."
(A) is   (B) was   (C) am   (D) are ✓

26. Which of the following is the interrogative form of the affirmative sentence ?
She can solve this puzzle.
(A) Can she solve this puzzle ? ✓   (B) She cannot solve this puzzle.
(C) Why can she solve this puzzle ?   (D) She could solve this puzzle.

27. Choose the sentence in which the article is used correctly :
(A) She wants to be an university professor.
(B) The Mount Everest is the highest peak in the world.
(C) He is reading a European novel. ✓
(D) We saw an one-eyed man on the street.

28. Identify the sentence with the correct and formal order of clauses (inversion structure) :
(A) Seldom people have seen such a breathtaking view.
(B) Seldom have people seen such a breathtaking view. ✓
(C) People seldom have seen such a breathtaking view.
(D) Seldom seen have people such a breathtaking view.

(C) People seldom have seen such a breathtaking view.

(D) Seldom seen have people such a breathtaking view.

29. Choose the interjection that expresses surprise in the following situation :
I just found out your friend won a national award.
(A) Alas   (B) Hey   (C) Wow   (D) Oops

30. In the sentence, "Hardly had she finished speaking when the lights went out.", the adverb 'hardly' is functioning as :
(A) An adverb of manner
(B) An adverb of frequency
(C) An adverb of degree used with inversion
(D) An adverb of place

31. Choose the correctly ordered sentence :
(A) Quickly the boy ran to school.   (B) The boy ran quickly to school.
(C) Ran quickly the boy to school.   (D) To school ran the boy quickly.

32. Choose the option that best completes the sentence with the most appropriate pair of correlativ conjunctions :
_____ the committee approved the proposal _____ it demanded several revisions befo implementation.
(A) Whether/or   (B) Both/and
(C) Not only/but also   (D) No sooner/than

33. Identify the sentence with the incorrect use of a modal verb.
(A) She can speak three languages fluently.
(B) You must to wear a uniform in school.
(C) We may go to the park this evening.
(D) He should apologize for his mistake.

34. Select the correct direct speech version :
He asked her if she had finished her homework.
(A) He asked her, "Have you finished your homework ?"
(B) He asked her, "Did you finish your homework ?"
(C) He asked her, "Had you finished your homework ?"
(D) He asked her, "Do you finish your homework ?"

35. Identify whether the underlined part is a phrase or a clause :
"Because she was late, she missed the bus."

35. Identify whether the underlined part is a phrase or a clause :
    "Because she was late, she missed the bus."
    (A) Phrase   ✓ Clause   (C) Both   (D) Neither

36. Choose the correctly spelled word :
    ✓ Connoisseur   (B) Conosieur   (C) Connosieur   (D) Connoiseur

37. Choose the correctly ordered sentence :
    (A) ✓ She has never before seen such a beautiful painting.
    (B) She never has seen before such a beautiful painting.
    (C) Before she has never seen such a beautiful painting.
    (D) She has seen never before such a beautiful painting.

38. Which word is the correct feminine form of the masculine noun 'heir' (a person legally entitled to property) ?
    (A) ✓ heiress   (B) heirine   (C) heirix   (D) heritor

39. Identify whether the underlined part is a phrase or a clause :
    "After finishing his homework, he went out to play."
    (A) ✓ Phrase   (B) Clause   (C) Both   (D) Neither

40. Convert to indirect speech :
    He said, "I am tired."
    (A) He said that he is tired.   ✓ He said that he was tired.
    (C) He said that I was tired.   (D) He said that he had tired.

41. Choose the word that best fits the sentence :
    "The scientist made a _____ discovery that changed the field of medicine."
    (A) trivial   (B) ✓ significant   (C) ordinary   (D) irrelevant

42. Choose the option that contains a reflexive pronoun :
    (A) ✓ She looked at herself in the mirror.
    (B) They themselves organized the event.
    (C) This is the house that Jack built.
    (D) Who told you the news ?

43. Identify the part of the sentence that contains an error :
    The number of participants have increased this year.
    (A) ✓ have   (B) The number of participants
    (C) increased   (D) this year

44. Choose the correct preposition to complete the sentence :
    "She has been waiting _____ you for more than an hour."

44. Choose the correct preposition to complete the sentence :
"She has been waiting _____ you for more than an hour."
(A) from   (B) since   (C) for   (D) by

45. Choose the correct option to complete the sentence :
"If she _____ harder, she would have passed the exam."
(A) studied   (B) will study   (C) studies   (D) had studied

Directions for question numbers (46-50) :
Read the following passage and answer the questions that follow :

The invention of the printing press in the 15th century by Johannes Gutenberg marked a turning point in human history. Books, once copied by hand and accessible only to the wealthy, became available to a much wider audience. This led to spread of knowledge, literacy, and ideas across Europe, fueling movements like the Renaissance and the Reformation. The printing press not only transformed education but also laid the foundation for modern communication and the sharing of information.

46. The printing press helped in spreading :
(A) wealth and luxury   (B) war and conflicts
(C) knowledge and literacy   (D) art and architecture only

47. Which movements were influenced by the printing press ?
(A) Industrial Revolution and Romanticism
(B) World War I and World War II
(C) French Revolution and Enlightenment
(D) Renaissance and Reformation

48. Who invented the printing press ?
(A) Alexander Graham Bell   (B) Johannes Gutenberg
(C) Isaac Newton   (D) Thomas Edison

49. Before the invention of the printing press, books were :
(A) printed on machines   (B) written by hand
(C) easily available   (D) not valued much

50. Based on the passage, which of the following statements best captures the broader significance of the printing press ?
(A) It highlights only the technical evolution of book-making.
(B) It emphasizes how the printing press influenced social, cultural, and intellectual developments.
(C) It discusses the disadvantages of relying on handwritten books.
(D) It illustrates the role of technology in warfare and politics.

PART - I
SECTION - II : HINDI

51. देख लो साकेत नगरी है यही। स्वर्ग से मिलने गगन में जा रही। - में कौन सा अलंकार है।
    - (A) अनुप्रास अलंकार
    - (B) यमक अलंकार
    - (C) उपमा अलंकार
    - (D) ✓ अतिशयोक्ति अलंकार

52. निम्नलिखित विकल्पों में से किस शब्द की वर्तनी शुद्ध है ?
    - (A) आधीन
    - (B) व्यवहारिक
    - (C) मिष्ठान्न
    - (D) ✓ अत्यधिक

53. 'ऋषि' का स्त्रीलिंग है -
    - (A) ऋषिनी
    - (B) ऋषिपत्नी
    - (C) ✓ ऋषिका
    - (D) ऋषी

54. श्याम से जब चोरी के बारे में पूछा गया, तो वह _____ लगा।
    - (A) भृकुटी चढ़ाने
    - (B) मुँह मोड़ने
    - (C) ✓ नजरें चुराने
    - (D) आग बबूला होने

55. वाह! कितना सुन्दर मोर है। रेखांकित शब्द का पद परिचय चिन्हित करें।
    - (A) अव्यय, विस्मयादिबोधक, शोक सूचक
    - (B) अव्यय, संबंध बोधक, शोक सूचक
    - (C) क्रिया विशेषण, काल वाचक, मोर की विशेषता बता रहा
    - (D) ✓ अव्यय, विस्मयादिबोधक, हर्ष सूचक

56. निम्नलिखित शब्दों में से फारसी शब्द का उदाहरण है :
    - (A) औरत
    - (B) आवाज़
    - (C) ✓ अक्ल
    - (D) अल्लाह

57. अनिश्चयवाचक सर्वनाम का करण कारक बहुवचन रूप होगा :
    - (A) किन्हीं को
    - (B) ✓ किन्हीं से
    - (C) किन्हीं की
    - (D) किन्हीं का

58. निम्नलिखित विकल्पों में से **ध वर्ण से संबंधित** कौन सा वाक्य असंगत है ?
    - (A) हिंदी वर्णमाला का उन्नीसवाँ व्यंजन है।
    - (B) तवर्ग का चौथा वर्ण।
    - (C) इसका उच्चारण स्थान दंतमूल है।
    - (D) ✓ यह मूर्धन्य वर्ण है।

59. निम्नलिखित विकल्पों में से **एकैक** शब्द यह संधि का उदाहरण है :
    - (A) ✓ वृद्धि संधि
    - (B) गुण संधि
    - (C) अयादि संधि
    - (D) व्यंजन संधि

60. निम्नलिखित विकल्पों में से 'योगरूढ़' शब्द कौन-सा है ?
    - (A) नीला
    - (B) धैर्यवान
    - (C) ✓ पीताम्बर
    - (D) आँख

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61. निम्नलिखित में से कौन सा वाक्य सही है ?
   (A) उसका प्राण-पखेरु उड़ गया। ✓
   (B) मामाजी शायद कल की गाड़ी से आएँ।
   (C) उन्हें उनचालिस पुस्तकें चाहिएं।
   (D) आपका अंगुलियाँ मुझसे बड़ी है।

62. **अध्यापक ने बच्चों से पढ़वाया।** वाक्य में कौन सी क्रिया है ?
   (A) आगमनात्मक
   (B) संयुक्त क्रिया
   (C) अकर्मक
   (D) प्रेरणार्थक ✓

63. निम्नलिखित विकल्पों में से पर्यायवाची की दृष्टि से एक वर्ग शुद्ध है :
   (A) सिंह, पंचानन, नाहर, मृगारि ✓
   (B) सूर्य, रवि, दिनकर, तरणी
   (C) अग्नि, पावक, अनल, पिशुन
   (D) महेश, रमेश, भूतेश, सतीश

64. निम्नलिखित विकल्पों में से कर्तृवाच्य में कौन सी क्रिया होती है ?
   (A) अकर्मक
   (B) सकर्मक
   (C) अकर्मक तथा सकर्मक दोनों ✓
   (D) कोई भी विकल्प नहीं

65. निम्नलिखित विकल्पों में से **अनुस्वार और विसर्ग** को क्या कहते हैं ?
   (A) व्यंजन
   (B) अयोगवाह ✓
   (C) शब्द
   (D) वर्णमाला

66. कोष्ठक में दिए विराम चिह्न (:) का सही नाम क्या है ?
   (A) उपविराम
   (B) पूर्णविराम
   (C) विवरण चिन्ह ✓
   (D) प्रश्नवाचक

67. मोक्ष की इच्छा रखने वाला :
   (A) मुमुक्षु ✓
   (B) मोक्षकामी
   (C) मोक्षाभिलाषी
   (D) मोक्षइच्छुक

68. **पुनरुत्थान** शब्द में प्रयुक्त उपसर्ग है :
   (A) पु
   (B) पुन
   (C) पुनः/पुनर ✓
   (D) पुनु

69. निम्नलिखित प्रश्न में, चार विकल्पों में से, उस सही विकल्प का चयन करें जो दिए गए वाक्यांश के लिए एक शब्द का विकल्प हो
   रंगमंच पर पर्दे के पीछे का स्थान
   (A) परिधेय
   (B) नेपथ्य ✓
   (C) परित्यस्ता
   (D) निशीथ

70. 'पहचान' का तत्सम शब्द है :
   (A) प्रत्यभिज्ञान ✓
   (B) प्रज्ञान
   (C) अभिधान
   (D) अवधान

PART - I
SECTION - III : SOCIAL SCIENCE

71. Which of the following Harappan sites is famous for its dockyard ?

(A) Mohenjodaro   (B) Lothal   (C) Harappa   (D) Kalibangan

72. Which of the following is **not** a criterion for a substance to become a resource ?

(A) Utility   (B) Demand   (C) Accessibility   (D) Quantity

73. What is the correct sequence for how a bill becomes a law in India ?

(A) Lok Sabha → Rajya Sabha → President

(B) Rajya Sabha → Lok Sabha → President

(C) President → Lok Sabha → Rajya Sabha

(D) Lok Sabha → President → Rajya Sabha

74. Which of the following statements about sustainable development is correct ?

(A) It aims to balance resource exploitation, conservation, and regeneration

(B) It encourages unlimited extraction of non-renewable resources

(C) It prioritizes present use over future use of resources

(D) It focuses only on economic growth

75. Which process helps prevent soil erosion and degradation on hilly terrain ?

(A) Deforestation   (B) Overgrazing

(C) Terracing on slopes   (D) Irrigation with excessive water

76. Which human activity contributes most directly to depletion of groundwater resources ?

(A) Planting trees

(B) Recharging aquifers

excessive extraction

(B) Recharging aquifers

(C) Overuse in agriculture / excessive extraction

(D) Rainwater harvesting

77. Who among the following was the first known ruler to introduce the silver coin known as the 'tanka' in Delhi Sultanate ?

(A) Iltutmish

(B) Qutb-ud-din Aibak

(C) Alauddin Khalji

(D) Balban

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78. Which of the following is a biotic resource ?

(A) Forests   (B) Wind   (C) Coal   (D) Water

79. Which of these is a power (energy) resource ?

(A) Desert

(B) Iron ore

(C) Soil

(D) Solar radiation

80. What is the minimum age to contest elections for the Rajya Sabha ?

(A) 25 years   (B) 30 years   (C) 35 years   (D) 18 years

81. The Mauryan emperor who embraced Buddhism after the Kalinga War was :

(A) Chandragupta Maurya

(B) Ashoka

(C) Bindusara

(D) Ajatashatru

82. The famous Iron Pillar at Mehrauli, Delhi, was built during the reign of :

(A) Harshavardhana

(B) Chandragupta II

(C) Samudragupta

(D) Skandagupta

83. Which of the following rights prohibits forced labor or bonded labor ?

(A) Right to Freedom (Article 19)

(B) Right to Equality (Article 14)

(C) Right against Exploitation (Articles 23 & 24)

(C) Right against Exploitation (Articles 23 & 24)

(D) Cultural and Educational Rights (Articles 29 & 30)

84. Which one of the following is **not** a feature of a democratic government ?

(A) Free and fair elections

(B) Elected representative have decision making power

(C) Protection of fundamental rights

(D) Rule by hereditary monarch

85. The Rigveda is composed in which ancient language ?

(A) Prakrit   (B) Tamil   (C) Sanskrit   (D) Pali

86. In the Indian system, who holds executive power at the state level ?

(A) Chief Minister and Council of Ministers

(B) Governor

(C) Speaker of Legislative Assembly

(D) High Court

87. The term *Shrenis* in early India referred to :

(A) Kings

(C) Temples

(B) Guilds of craftspeople and merchants

(D) Soldiers

88. The Permanent Settlement introduced by the British in Bengal was implemented in :

(A) 1757   (B) 1793   (C) 1813   (D) 1857

89. The Bhakti saint who composed the collection known as the *Tiruvaymoli* was :

(A) Andal   (B) Namdev

(C) Nayanar Appar   (D) Alvar Nammalvar

90. What does "universal adult franchise" mean ?

(A) Every adult has the right to free education

90. What does "universal adult franchise" mean?

   (A) Every adult has the right to free education

   (B) Every adult, regardless of gender, caste, or religion, has the right to vote

   (C) Only adult men can vote

   (D) Adults above 25 years only can vote

91. Which of the following institutions monitors elections in India?

   (A) Niti Ayog   (B) University Grants Commission

   (C) Union Public Service Commission   (D) Election Commission of India

92. The layer of the earth that directly supports life and human activity is known as:

   (A) Hydrosphere   (B) Lithosphere   (C) Atmosphere   (D) Biosphere

93. Which of the following is a Directive Principle of State Policy?

   (A) Right to equality

   (B) Freedom of religion

   (C) Promotion of educational and economic interests of weaker sections

   (D) Right against exploitation

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35G-INH-CIX-25/A

94. Which resource is considered inexhaustible (renewable) on human timescales?

   (A) Coal   (B) Petroleum   (C) Solar energy   (D) Natural gas

95. Which Mughal emperor commissioned the construction of the Red Fort in Delhi?

   (A) Akbar   (B) Jahangir

   (C) Shah Jahan   (D) Aurangzeb

96. Which body is responsible for interpreting the Constitution and adjudicating disputes related to it?

   (A) Parliament   (B) President   (C) Supreme Court   (D) Prime Minister

97. What is the main reason that resources are distributed unequally over the Earth?

97. What is the main reason that resources are distributed unequally over the Earth ?

    (A) Physical factors like climate, terrain, soil, etc.

    (B) Uniform topography

    (C) Even distribution of rainfall

    (D) Equal human population everywhere

98. Who among the following was the leader of the Santhal rebellion (1855–56) ?

    (A) Sidhu and Kanhu Murmu   (B) Birsa Munda

    (C) Tantia Tope   (D) Kunwar Singh

99. Which article of the Indian Constitution abolishes untouchability ?

    (A) Article 15   (B) Article 17   (C) Article 19   (D) Article 21

100. Suppose a region has vast groundwater reserves but lacks the technology to pump water. That groundwater is an example of :

    (A) Actual resource

    (B) Stock resource

    (C) Reserve resource

    (D) Ubiquitous resource

PART - II
SECTION - IV : MATHEMATICS

101. In how many ways can a rectangle be cut so that each part is symmetrical to the other ?

    (A) 3   (B) 4   (C) 2   (D) 6

102. An isosceles right triangle has perpendicular legs of 8 cm each. Its base coincides with the longer side of a parallelogram whose area is 64 sq. cm. Find the height of the parallelogram.

    (A) 6 cm   (B) 8 cm   (C) 7 cm   (D) 9 cm

(A) 6 cm   (B) 8 cm   (C) 7 cm   (D) 9 cm

103. The mean of the numbers 14, 9, 11, y, and 6 is 10. Find the value of y.

(A) 9   (B) 8   (C) 7   (D) 10

104. A garden is designed using two pairs of parallel pathways of equal length that intersect each other at right angles. What is the shape of the central area formed by the intersecting pathways ?

(A) Rectangle   (B) Rhombus   (C) Square   (D) Parallelogram

105. A mathematics book has 450 pages. Chapter 7 runs from page 121 to page 140. The ratio of the number of pages of this chapter to the total number of pages of the book is :

(A) 2 : 45   (B) 1 : 25   (C) 19 : 45   (D) 1 : 30

106. In $\triangle ABC$, if $\angle A = \angle B$ and $\angle C = 125°$, then

(A) $\angle A = \angle B = 27°$ (B) $\angle A = \angle B = 37.5°$

(C) $\angle A = \angle B = 27.5°$ (D) None of the options

107. The value of the expression $y[-y(y-3) - y(3y)]$ for $y = -1$ is :

(A) -3 (B) -7 (C) 7   (D) 0

108. A trader bought 8 chairs at ₹ 750 each. He sold all of them together for ₹ 5,625. What is his profit or loss percent ?

(A) 5% loss   (B) 3% profit   (C) 6.25% loss   (D) 6.25% profit

109. Which of the following statements is true ?

(A) A triangle can have two right angles.

(B) The sum of the angles in a quadrilateral is 360°.

(C) A circle has three sides.

(D) A square has only three right angles.

110. If the circumference of a circle is 48 cm, what is its radius ?

(A) $\dfrac{\pi}{34}$ cm   (B) $\dfrac{34}{\pi}$ cm   (C) $\dfrac{\pi}{24}$ cm   (D) $\dfrac{24}{\pi}$ cm

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111. Which of the following is a non-zero integer ?

(A) -2.6 (B) $\sqrt{16} = 4$ (C) $4 + \left(-\dfrac{1}{2}\right)$ (D) $\dfrac{1}{2} - \dfrac{1}{2}$

(A) −2.6   ✓ (B) $\sqrt{16} = 4$ (C) $4 + \left(-\frac{1}{2}\right)$ (D) $\frac{1}{2} - \frac{1}{2}$

112. 95 degrees Fahrenheit is equal to how many degrees Celsius ?

    (A) 34°C   (B) 36°C   (C) 37°C   ✓ (D) 35°C

113. Simplify :

$$\frac{7}{12} - \frac{1}{2} \div \frac{3}{1} + \frac{43}{72} \times \frac{1}{5}$$

    (A) $\frac{179}{360}$ ✓ (B) $\frac{193}{360}$ (C) $\frac{173}{360}$ (D) $\frac{249}{360}$

114. A car was bought for ₹75,000. Its value depreciates at the rate of 12% per annum. What will be its value after one year ?

    ✓ (A) ₹66,000   (B) ₹6,60,000   (C) ₹63,000   (D) ₹64,500

115. A survey of 5,000 residents in a town shows that 60% are interested in football. Among those interested, 70% do not actually play football. How many residents actively play football ?

    ✓ (A) 900   (B) 1,500   (C) 1,000   (D) 1,200

116. A regular polygon has an exterior angle of 45°. How many sides does the polygon have ?

    (A) 6   ✓ (B) 8   (C) 10   (D) 12

117. If 12 pens cost ₹18, how many pens can be bought for ₹30 ?

    (A) 18   ✓ (B) 20   (C) 24   (D) 22

118. In a trapezium, the height is 6 cm and its area is 84 sq. cm. If one of the parallel sides is three times the other, find the length of the longer side.

    (A) 18 cm   (B) 20 cm   (C) 15 cm   ✓ (D) 21 cm

119. Triangle 1 : AB = 5 cm, AC = 6 cm, BC = 7 cm

Triangle 2 : PQ = 5 cm, PR = 6 cm, QR = 7 cm

By which congruence rule are the two triangles congruent ?

(A) SAS   (B) ASA   (C) SSS   (D) RHS

120. How many faces does a square pyramid have ?

(A) 1   (B) 2   (C) 4   (D) 5

121. In a cube and a cuboid with equal volumes, the length of the cuboid equals the side of the cube. If the height and width of the cuboid are 16 cm and 4 cm respectively, what is the volume of the cube ?

(A) 512 cm³   (B) 521 cm³   (C) 412 cm³   (D) 421 cm³

122. If $x = \dfrac{3^{-1} + 4^{-2}}{5}$, find $\dfrac{1}{2x}$.

(A) $\dfrac{125}{19}$ (B) $\dfrac{126}{19}$ (C) $\dfrac{123}{19}$ (D) $\dfrac{120}{19}$

123. A cylindrical water tank has a radius of 3 cm and can hold 282.6 ml of water. What is the height of the tank ? (Use $\pi = 3.14$)

(A) 10 cm   (B) 9 cm   (C) 8 cm   (D) 11 cm

124. Three times a number is equal to the number plus 18. What is the number ?

(A) 6   (B) 7   (C) 9   (D) None of the options

125. Which of the following evaluates to an integer ?

(A) $\sqrt{10}$ (B) 4.5   (C) $\dfrac{-\sqrt{81}}{3}$ (D) 1.2

126. A jacket costs ₹2200. If the shopkeeper sells it for ₹2000, what is the discount percentage ?

(A) 9.09%   (B) 10%   (C) 9.1%   (D) None of the options

126. A jacket costs ₹2200. If the shopkeep...

(A) 9.09%

(B) 10%

(C) 9.1%

(D) None of the options

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127. Three times the half of twice a number is equal to minus four times its quarter. Find the number.

(A) 2

(B) −2

(C) 1

(D) 0

135.

128. A polyhedron has 18 edges and 8 faces. The number of vertices in the polyhedron is _____

(A) 6

(B) 8

(C) 12

(D) 10

136.

129. A circle has an area numerically equal to half of its circumference. What is the area of the circle ?

(A) 2π

(B) π

(C) 4π

(D) None of the options

130. What is the minimum number to be subtracted from 200 to make it a perfect square ?

(A) 9

(B) 5

(C) 6

(D) 4

137

13

131. A triangle PQR has angles 50°, 60° and 70°. The triangle is :

(A) Obtuse-angled

(B) Acute-angled

(C) Right-angled

(D) Scalene

13

132. A cyclist goes around a circular park once in 2 minutes. The diameter of the park is 154 meters. Find the speed of the cyclist. (Use π = 22/7)

(A) 4.033 m/s

(B) 3.5 m/s

(C) 4.044 m/s

(D) 3.044 m/s

133. Two parallel lines, PQ and RS, are intersected by a transversal TU. If the points of intersection are X and Y respectively, then ∠PXY = _____

(A) 180° − ∠SYU

(B) 90° − ∠RYT

(C) 180° − ∠RYX

(D) ∠PYX

X and Y respectively, then ∠PXY = _____.

(A) 180° − ∠SYU (B) 90° − ∠RYT (C) 180° − ∠RYX (D) ∠RYX ✓

34. At a busy intersection, there are three traffic lights. The first turns red every 24 seconds, the second turns red every 36 seconds, and the third turns red every 54 seconds. After how many seconds will all three lights turn red simultaneously ?

(A) 432 s (B) 316 s (C) 486 s (D) 216 s ✓

135. If the diameter of a circle is 20 cm, find its area. (Use π = 3.14)

(A) 314 cm² ✓ (B) 312 cm² (C) 315 cm² (D) 316 cm²

136. Convert the following :
    (i) 2500 cm² into m²
    (ii) 0.75 m³ into cm³

(A) (i) 0.25 m²   (B) (i) 0.025 m²
    (ii) 7.5 cm³   (ii) 750000 cm³

(C) (i) 0.25 m²   (D) (i) 0.25 m² ✓
    (ii) 7500 cm³   (ii) 750000 cm³

137. What is the least perfect cube divisible by both 4 and 6 ?

(A) 432 (B) 216 ✓ (C) 442 (D) None of the options

138. A graph in which the data points are connected by straight lines to show a continuous trend is called a _____.

(A) bar graph (B) linear graph ✓ (C) pie chart (D) histogram

139. Find the two values of x that satisfy the equation $x^2 + 5x = 14$.

(A) {2, −7} ✓ (B) {−2, 5} (C) {2, 7} (D) {−2, −5}

140. Find the median of the following data set :

140. Find the median of the following data set :

5, 12, 7, 9, 10

(A) 7   (B) 9   (C) 10   (D) 12

141. Solve the Roman numeral expression: LXXV − XXIV = ?

(A) L   (B) LI   (C) LII   (D) None of the options

142. A rectangular playground has a length of 21 m and a width of 13 m. A 1 m wide path runs inside along the edges. If tiling costs ₹70 per m², what is the total expense of tiling the path ?

(A) ₹4300   (B) ₹4200   (C) ₹4480   (D) ₹4000

143. **Assertion (A) :** The product of any two positive integers is always positive.

Reason (R) : Multiplying two negative integers always gives a positive number.

(A) Both **Assertion** and **Reason** are true, and **Reason** is the correct explanation of **Assertion**.

(B) Both **Assertion** and **Reason** are true, but **Reason** is not the correct explanation of **Assertion**.

(C) **Assertion** is true, **Reason** is false.

(D) **Assertion** is false, **Reason** is true.

144. The area of a square garden is 2025 m². The length of one side of the garden is _____

(A) 45 m   (B) 40 m   (C) 50 m   (D) 42 m

145. If 6 workers can finish a job in 15 days, how many days will 10 workers take to complete the same job, assuming all work at the same rate ?

(A) 9 days   (B) 10 days   (C) 12 days   (D) 8 days

146. The perpendiculars drawn from the vertices to the opposite sides of a triangle meet at the _____

(A) Intersection point   (B) Midpoint

(C) Vertex   (D) Side

(C) Vertex (D) Side

147. What is the difference between the place value of 6 in 7,864 and the face value of 9 in 9,332 ?

(A) 52 (B) 50 (C) 51 ✓ (D) 53

148. The improper fraction $\frac{17}{3}$ expressed as a mixed fraction is :

(A) $5\frac{1}{4}$ (B) $5\frac{1}{2}$ (C) $5\frac{1}{3}$ (D) $5\frac{2}{3}$ ✓

149. The perimeter of a square is equal to the area of a rhombus. One diagonal of the rhombus is equa to the other, and the diagonal is 8 units. Find the length of the diagonal of the square.

(A) $8\sqrt{2}$ units ✓ (B) $16\sqrt{2}$ units (C) $4\sqrt{2}$ units (D) $12\sqrt{2}$ units

150. Upon throwing two dice, what is the probability that the sum of the numbers on the two dice is ?

(A) 1/12 (B) 1/8 (C) 1/6 ✓ (D) 1/9

PART – II
SECTION – V : SCIENCE

151. Which among the following statements is correct ?
(A) Xylem is the tissue responsible for the translocation of photosynthates (sugars).
(B) Xylem transports sugars from the leaves (source) to other parts of the plant (sinks).
(C) Phloem transports water and minerals upwards, and Xylem transports some organic nitrogen.
(D) ✓ The phloem is the "highway" for translocating sugars, amino acids, hormones, and other organic molecules from source to sink.

152. Ram noted the correct fact regarding the convex mirror, among the following list as :
(A) A convex mirror can form a real image.
(B) Convex mirrors cannot be used for magnification.
(C) ✓ The focal length of a convex mirror is negative.
(D) Convex mirrors give a more accurate view of distance.

153. Please help Mohan to determine, which of the following claims about luminous flames is False ?
(A) When the air hole is closed, a Bunsen burner produces a luminous, yellow flame.
(B) Flames from burning wood are often luminous and yellow/orange from the presence of soot particles.

(A) ~~When the air hole is closed, a Bunsen burner produces a luminous, yellow flame~~

(B) Flames from burning wood are often luminous and yellow/orange from the presence of soot particles.

(C) A candle flame is a common example of a luminous flame.

(D) Yellow or orange flames are a result of complete combustion of the fuel, which produces unburnt carbon particles that get heated and glow.

154. Which of the following best sums up the usual result of adolescence's increased activity of the sweat and oil glands, according to young boys and girls ?
(A) Goiter and Diabetes
(B) Acne and Pimples
(C) Anemia and Clogged Pores
(D) Clogged Pores and Diabetes

155. Adam's apple is :
(A) Red apple
(B) Unripe apple
(C) Mammary Gland
(D) Laryngeal prominence

156. Which tool does Ram use to check if the washing machine is receiving electric current ?
(A) Multimeter (B) Calorimeter (C) Barometer (D) Thermometer

157. When an electric current passes through a conducting solution, Kaveri noticed gas bubbles form on the electrodes. The teacher clarified the reason for the observation by saying that it is because of :
(A) The heating effect of electric current
(B) Magnetic effect of electric current
(C) Chemical effect of electric current
(D) Illuminating effect of electric current

158. In certain chemical industry, petroleum was separated into its various components like petrol, diesel by fractional distillation. Above change is :
(A) Physical
(B) Chemical
(C) Neither Physical or Chemical
(D) Both Physical and Chemical

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159. Ram's mother explains that eating a banana everyday lowers acidity because :
(A) Ripe bananas are considered alkaline and low in acid, containing natural antacids and pectin that can neutralize stomach acid
(B) It is a base that provides flavor
(C) It helps in digesting the food faster, acts as an activator
(D) All of the options

160. Please assist Rema in identifying which of the following statements regarding nuclear fusion is False ?
(A) Electricity produced through this process is commercially less viable than nuclear fission.
(B) Fusion does not produce highly radioactive, long-lived waste that requires geological-scale

(A) Electricity produced through this process is commercially less viable than nuclear fission.
(B) Fusion does not produce highly radioactive, long-lived waste that requires geological-scale storage.
(C) Fusion produces almost no greenhouse gas emissions during operation, making it a carbon-neutral energy source that can help combat climate change.
(D) A fusion reactor could explode like a nuclear bomb. ✓

161. Which one of the following statements is correct about force ?
(A) Forces applied to an object need to be in the same direction.
(B) Force always arises from the interaction between two objects.
(C) Force is a scalar quantity.
(D) The strength of a force is usually expressed by its magnitude only.

162. Which of the following claims about a cell's nucleus is true ?
(A) The nucleus is where proteins are made.
(B) The nucleus is a dynamic control center for the cell, involved in DNA replication, transcription, and RNA processing, as well as ribosome biogenesis.
(C) All organelles inside the cell revolve around the nucleus in neat paths like planets around the sun.
(D) The nucleus is a single, central structure.

163. Ovum and Eggs are formed in :
(A) Ovary   (B) Fallopian tubes (C) Oviduct   (D) Penis

164. The list of ductless gland applications that follows does not include :
(A) Regulated fatigue or weight gain
(B) Controls reproduction and Regulate blood pressure
(C) Maintains body temperature and Controls blood sugar
(D) Regulates growth and Manages stress

165. For electroplating a steel jewellery with copper, the electrolyte used by Ram must be a solution of :
(A) Sodium Chloride   (B) Copper Sulphate
(C) Sodium Sulphate   (D) Copper Chloride

166. Rahul made the incorrect match by accident. Please assist him in determining the incorrect match.
(A) Frictional force – Rubbing your hands together to create heat
(B) Muscular force - Chewing food
(C) Gravitational Force - Food going down in esophagus pipe
(D) Electrostatic force - A comb attracting small pieces of paper

167. Which among the following are not Lustrous non-metals ?
(A) Diamond   (B) Graphite   (C) Iodine   (D) Copper

168. Focal length of plane mirror is :
(A) Zero

(D) Copper

168. Focal length of plane mirror is :
(A) Zero
(C) Half its aperture
(B) Infinity
(D) Double its aperture

169. Which of the following is **not** made using natural gas ?
(A) Plastics
(B) Fertilizers
(C) Glass bottles
(D) Synthetic fibers

170. An example of artificial silk does **not** include :
(A) Bamboo silk
(B) Cupro and Lyocell
(C) Viscose rayon and Modal
(D) Tasar (or Tussar) silk and Muga silk

171. Firefighters' uniforms are coated with which fire-resistant plastic :
(A) Aramids and Melamine
(B) Teflon and Melamine
(C) Bakelite and Aramids
(D) PVC and Bakelite

172. Which of the following is an example of in-situ conservation ?
(A) Zoological Park
(B) National Park
(C) Botanical garden
(D) Laboratory Culture

173. Please assist Avni in selecting one of the following examples of non-uniform motion.
(A) The steady spin of a cooling fan's blades.
(B) An accelerating car in traffic.
(C) An airplane flying at a constant speed and altitude.
(D) The hour hand of a clock.

174. Which among the following is **not** a type of asexual reproduction ?
(A) Budding
(B) Zygote formation
(C) Regeneration
(D) Fragmentation

175. Natural coolant present in human body is :
(A) Blood
(B) Plasma
(C) Water
(D) Salt ions

176. Which of the following are **not** examples of amphoteric substances ?
(A) Proteins
(B) Aluminium Oxide (Al_2O_3)
(C) Amino Acids
(D) Water (H_2O)

177. Which of the following diseases is **not** a bacterial disease ?
(A) Pneumonia
(B) Urinary Tract Infections (UTIs)
(C) COVID-19
(D) Tuberculosis (TB)

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178. Which of the following facts supports global warming statement ?
   (A) Volcanoes emit more CO_2 than human activities
   (B) The climate has always changed naturally
   (C) Water vapor is the most important greenhouse gas
   (D) The actual major cause for global warming includes burning fossil fuels, deforestation and fluorinated gases

179. The correct response by the Adrenaline hormone is :
   (A) Fight-or-flight response
   (B) Reproduction to metabolism and stress response
   (C) Manage metabolism, energy levels, and the nervous system
   (D) Stimulates the ovaries to produce estrogen and develop eggs

180. Which among the following is a correct statement ?
   (A) Deoxygenated blood is blue.
   (B) Anemia is always a sign of iron deficiency.
   (C) We must wait at least 56 days between whole blood donations, not a full year.
   (D) We must eat red meat to avoid iron deficiency.

181. Which of the following is not a characteristic of a base ?
   (A) They are bitter in taste.   (B) They feel soapy to touch.
   (C) They turn red litmus blue.   (D) They have a pH less than 7.

182. Light dispersion cannot be used for the following purposes :
   (A) The spectrum produced by a cut-glass ornament.
   (B) Colors seen on soap bubbles and oil slicks.
   (C) Working of Flashlights and headlights.
   (D) The spectrum produced by a glass prism.

183. Ravi knows that Vaccines are made up of :
   (A) Chemicals   (B) Weak microorganisms
   (C) Viruses   (D) Drugs

184. Which of the following, in your opinion, best describes how rolling, sliding, and static friction are related ?
   (A) Static friction is always less than sliding friction
   (B) Of the three, rolling friction is the highest
   (C) Rolling friction > Sliding friction > Static friction
   (D) Static friction > Sliding friction > Rolling friction

185. Sound plays a vital role in our daily lives because –
   (A) Sound can travel through space
   (B) Sound waves cannot generate heat
   (C) Infrasound waves cause cavitation, helping to break down contaminants in liquids

(B) Sound waves cannot generate heat
(C) Infrasound waves cause cavitation, helping to break down contaminants in liquids
(D) Sound waves are used in medical applications such as ultrasound imaging and stethoscope

186. The main constituents of petroleum, obtained through fractional distillation, do **not** include :
(A) Coal and Coke
(B) Petrol and Diesel
(C) Kerosene and Lubricating Oil
(D) Paraffin Wax and Bitumen

187. Please help Sita to determine, which of the following claims about the various forms of combustion is False ?
(A) Rapid combustion includes the burning of LPG in a gas stove or a burning matchstick.
(B) Spontaneous combustion includes forest fires, fires in coal mines, or the self-ignition of oil-soaked rags.
(C) Spontaneous combustion quickly produces heat and light while Rapid combustion ignites without external heat.
(D) Explosive combustion includes firecrackers or dynamite explosions.

188. Aeroplane while flying in air experiences which type of friction ?
(A) Sliding friction
(B) Drag friction
(C) Dynamic friction
(D) Static friction

189. Please assist Sita in determining the correct information about desertification.
(A) Desertification is caused by a desert expanding and "swallowing" fertile land
(B) Desertification is a natural phenomenon caused only by drought
(C) Desertification only affects people in dry, hot countries
(D) Sustainable agriculture and afforestation can stop desertification

190. Which human activity, in your opinion, is the primary cause of greenhouse gas emissions ?
(A) Reusing waste products
(B) Burning fossil fuels for electricity, heat, and transportation
(C) Shopping in cloth bags
(D) Setting up water-saving faucets

191. Which of the following is an example of sexual reproduction in plants ?
(A) Seed production in mango
(B) Strawberries using runners
(C) Potatoes via tubers
(D) Onions using bulbs

192. Please assist Sita in determining which of the following statements about the reactivity of elements is incorrect.
(A) Calcium (Ca) reacts with cold water.
(B) Sodium (Na) reacts violently with water and must be stored in oil.
(C) Francium (Fr), a radioactive element, is the most reactive of all metals.
(D) Iodine (I) is the highest reactive of the common halogens.

(C) Francium (Fr), a ~~~~~~~~~
(D) Iodine (I) is the highest reactive of the common halogens.

193. According to the Law of Periods (or Harmonic Law).
   (A) The cube of a planet's orbital period is proportional to the cube of its semi-major axis.
   (B) The cube of a planet's orbital period is proportional to the square of its semi-major axis.
   (C) The square root of a planet's orbital period is proportional to the cube root of its semi-major axis.
   (D) The square of a planet's orbital period is proportional to the cube of its semi-major axis.

194. Why do liquid conductivity testers use light-emitting diodes, or LEDs ?
   (A) The light they emit is extremely bright.
   (B) Even a weak electric current can be detected by them.
   (C) They consume less energy.
   (D) They are an electrode type.

195. Ananya provided correct information about biodiversity, one of which is :
   (A) More species means better biodiversity
   (B) We need a single metric for biodiversity, just like CO_2 for climate change
   (C) Biodiversity conservation is a collective responsibility involving individuals, communities, and governments
   (D) Climate change and Human overpopulation is the main drivers of biodiversity loss

196. Please help Ravi to choose the correct statement about the endoplasmic reticulum (ER) found in a cell from the list below.
   (A) It is present in all cells (eukaryotic as well as prokaryotic).
   (B) It consists of a Discontinuous Membrane System.
   (C) Protein folding only occurs in the rough ER.
   (D) The ER is involved in lipid synthesis and steroid hormone production.

197. Which of the following examples must be included in reversible physical changes list ?
   (A) dissolving (like sugar in water)   (B) grinding wood into sawdust
   (C) shattering a glass   (D) shredding paper

198. Which of the following is **not** correct regarding Kharif crops ?
   (A) Grown during the monsoon (rainy) season (June-September).
   (B) Examples are maize, millet (bajra) and cotton crops.
   (C) Example are wheat, gram and mustard.
   (D) After maturation, these crops are harvested in October-November.

199. Please assist Ananya in selecting the correct statement from the list below.
   (A) Plant-based diets are nutritionally deficient.

199. Please assist Ananya in selecting the correct statement from the list below.
   (A)   Plant-based diets are nutritionally deficient.
   (B)   All plant-based foods are healthy.
   (C)   Plant-based protein is inferior or incomplete.
   (D)   Plant-based diets provide a lower risk of heart disease, diabetes, and certain cancers, due to their high fiber, antioxidant, and nutrient content, and lower levels of saturated fat and cholesterol.

200. Trishul on top of a temple has a scientific significance as :
   (A)   Acting as an earthing rod or lightning conductor
   (B)   Decorative or symbolic purpose
   (C)   Rainwater harvesting
   (D)   Solar electricity generation

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