

PART - I
SECTION - I : ENGLISH

1. ✓ 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.
2. ✕ Choose the word that is the most appropriate antonym of "Ostentatious" : *doubt*
(A) Showy ~~(B) Modest~~ (C) Extravagant (D) Pretentious
3. ✓ 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 ?"
4. ✓ 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
5. ✕ 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~~
6. ✓ 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.
7. ✕ Choose the correct determiner :
I have read _____ books about space travel.
~~(A) many~~ (B) much (C) little (D) fewest
8. ✓ 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.

9. 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 ?

10. The following four sentences (P, Q, R, S) are jumbled. Rearrange them in the correct order to form a 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 woods.
- 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

11. 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

12. Identify the type of sentence :

"What a beautiful painting this is!"

- (A) Declarative sentence
- (B) Interrogative sentence
- (C) Imperative sentence
- ☒ (D) Exclamatory sentence

13. 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

14. 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.

15. Choose the option that best completes the sentence with the most appropriate pair of correlative conjunctions :

_____ the committee approved the proposal _____ it demanded several revisions before implementation.

- (A) Whether/or
- (B) Both/and
- ☒ (C) Not only/but also
- (D) No sooner/than

16. 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

17. 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.

18. 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.

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

20. 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

21. 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 ^{her} his cubs fiercely.~~
(D) The hostess greeted her guests politely.

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

23. 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

24. 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

25. 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.
26. 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.
27. 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
28. 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
29. Choose the correctly spelled word :
(A) Connoisseur (B) Conosieur (C) Connosieur (D) Connoiseur
30. Identify whether the underlined part is a phrase or a clause :
"Because she was late, she missed the bus."
(A) Phrase (B) Clause (C) Both (D) Neither
31. Choose the word closest in meaning to "Obsolete" :
(A) Modern (B) Current (C) Useful (D) Outdated
32. 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
33. Choose the correct tense :
"I _____ to the market yesterday."
(A) go (B) going (C) will go (D) went
34. 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

35. 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.

36. 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

37. Choose the correct word to complete the sentence :

"Please _____ me how to reach the station."

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

38. 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.~~

39. 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

40. 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

41. Convert to indirect speech :

He said, "I am tired."

- (A) He said that he is tired.
- ~~(B) He said that he was tired.~~
- (C) He said that I was tired.
- (D) He said that he had tired.

42. Rita and I are going to the park. Would you like to come with _____?

- (A) them
- (B) we
- (C) they
- ~~(D) us~~

43. 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

44. 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.
45. 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.

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. 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.
47. Who invented the printing press ?
- (A) Alexander Graham Bell ☒ (B) Johannes Gutenberg
(C) Isaac Newton (D) Thomas Edison
48. 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
49. The printing press helped in spreading :
- (A) wealth and luxury (B) war and conflicts
☒ (C) knowledge and literacy (D) art and architecture only
50. Before the invention of the printing press, books were :
- (A) printed on machines ☒ (B) written by hand
(C) easily available (D) not valued much

PART - I
SECTION - II : HINDI

51. निम्नलिखित विकल्पों में से किस शब्द की वर्तनी शुद्ध है ?
(A) आधीन (B) व्यवहारिक ~~(C) मिष्ठान~~ ~~(D) अत्यधिक~~
52. कोटक में दिए विराम चिह्न (:) का सही नाम क्या है ?
~~(A) उपविराम~~ (B) पूर्णविराम (C) विवरण चिह्न ~~(D) प्रश्नवाचक~~
53. 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~~
54. 'पहचान' का तत्सम शब्द है :
~~(A) प्रत्यभिज्ञान~~ ~~(B) प्रज्ञान~~ (C) अभिधान (D) अवधान
55. अनिश्चयवाचक सर्वनाम का करण कारक बहुवचन रूप होगा :
(A) किन्हीं को ~~(B) किन्हीं से~~ (C) किन्हीं की ~~(D) किन्हीं का~~
56. मोक्ष की इच्छा रखने वाला :
~~(A) मुमुक्षु~~ (B) मोक्षकामी (C) मोक्षाभिलाषी (D) मोक्षइच्छुक
57. 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
58. निम्नलिखित विकल्पों में से अनुस्वार और विसर्ग को क्या कहते हैं ?
(A) व्यंजन ~~(B) अयोगवाह~~ (C) शब्द ~~(D) वर्णमाला~~
59. 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 चाहिए। (D) आपका अंगुलियाँ मुझसे बड़ी है।
60. पुनरुत्थान शब्द में प्रयुक्त उपसर्ग है :
(A) पु ~~(B) पुन~~ (C) पुनः/पुनर (D) पुन

61. 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।~~
62. निम्नलिखित विकल्पों में से पर्यायवाची की दृष्टि से एक वर्ग शुद्ध है :
 (A) ~~सिंह, पंचानन, नाहर, मृगरि~~ (B) सूर्य, रवि, दिनकर, तरणी
 (C) अग्नि, पावक, अनल, पिशुन (D) ~~महेश, रमेश, भूतेश, सतीश~~
63. निम्नलिखित विकल्पों में से 'योगरूढ़' शब्द कौन-सा है ?
 (A) नीला (B) ~~धैर्यवान~~ (C) ~~पीताम्बर~~ (D) आँख
64. 'ऋषि' का स्त्रीलिंग है -
 (A) ऋषिनी (B) ऋषिपत्नी (C) ~~ऋषिका~~ (D) ऋषी
65. निम्नलिखित शब्दों में से फारसी शब्द का उदाहरण है :
 (A) ~~औरत~~ (B) ~~आवाज़~~ (C) अक्ल (D) अल्लाह
66. 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~~
67. 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
68. निम्नलिखित विकल्पों में से **एकैक** शब्द यह संधि का उदाहरण है :
 (A) ~~वृद्धि संधि~~ (B) गुण संधि (C) ~~अयादि संधि~~ (D) व्यंजन संधि
69. श्याम से जब चोरी के बारे में पूछा गया, तो वह _____ लगा।
 (A) भुंकी चढ़ाने (B) ~~मुंह मोड़ने~~ (C) ~~नज़रें चुराने~~ (D) आग बबूला होने
70. अध्यापक ने बच्चों से पढ़ाया। वाक्य में कौन सी क्रिया है ?
 (A) ~~आगमनात्मक~~ (B) संयुक्त क्रिया (C) अकर्मक (D) ~~प्रेरणार्थक~~

PART - I
SECTION - III : SOCIAL SCIENCE

71. What is the minimum age to contest elections for the Rajya Sabha ?
(A) 25 years (B) 30 years (C) 35 years (D) 18 years
72. 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
73. 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
74. Which Mughal emperor commissioned the construction of the Red Fort in Delhi ?
(A) Akbar (B) Jahangir
(C) Shah Jahan (D) Aurangzeb
75. The Mauryan emperor who embraced Buddhism after the Kalinga War was :
(A) Chandragupta Maurya (B) Ashoka
(C) Bindusara (D) Ajatashatru
76. 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
77. Which of the following is **not** a criterion for a substance to become a resource ?
(A) Utility (B) Demand (C) Accessibility (D) Quantity
78. Which of these is a power (energy) resource ?
(A) Desert (B) Iron ore
(C) Soil (D) Solar radiation

79. The term *Shrenis* in early India referred to :
(A) Kings (B) Guilds of craftspeople and merchants
(C) Temples (D) Soldiers
80. 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
81. 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
82. Which body is responsible for interpreting the Constitution and adjudicating disputes related to it ?
(A) Parliament (B) President (C) Supreme Court (D) Prime Minister
83. The Permanent Settlement introduced by the British in Bengal was implemented in :
(A) 1757 (B) 1793 (C) 1813 (D) 1837
84. 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
85. 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

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

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

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

- (A) Andal (B) Namdev
(C) Nayanar Appar (D) Alvar Nammalvar

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

- (A) Harshavardhana (B) Chandragupta II
(C) Samudragupta (D) Skandagupta

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

- (A) Deforestation (B) Overgrazing
(C) Terracing on slopes (D) Irrigation with excessive water

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

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

91. Which article of the Indian Constitution abolishes untouchability ?

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

92. 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

93. 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

94. Which of the following is a biotic resource ?
(A) Forests (B) Wind (C) Coal (D) Water
95. 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
96. The layer of the earth that directly supports life and human activity is known as :
(A) Hydrosphere (B) Lithosphere (C) Atmosphere (D) Biosphere
97. Which human activity contributes most directly to depletion of groundwater resources ?
(A) Planting trees
(B) Recharging aquifers
(C) Overuse in agriculture / excessive extraction
(D) Rainwater harvesting
98. 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)
(D) Cultural and Educational Rights (Articles 29 & 30)
99. 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
100. The Rigveda is composed in which ancient language ?
(A) Prakrit (B) Tamil (C) Sanskrit (D) Pali

PART - II
SECTION - IV : MATHEMATICS

101. 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
102. 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) ☒ $5\frac{2}{3}$
103. 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
104. 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
105. Solve the Roman numeral expression: $LXXV - XXIV = ?$
(A) L (B) ☒ LI (C) LII (D) None of the options
106. Two parallel lines, PQ and RS, are intersected by a transversal TU. If the points of intersection are X and Y respectively, then $\angle PXY =$ _____.
(A) ☒ $180^\circ - \angle SYU$ (B) $90^\circ - \angle RYT$ (C) $180^\circ - \angle RYX$ (D) $\angle RYX$
107. 95 degrees Fahrenheit is equal to how many degrees Celsius ?
(A) 34°C (B) 36°C (C) 37°C (D) ☒ 35°C
108. Triangle 1 : $AB = 5\text{ cm}$, $AC = 6\text{ cm}$, $BC = 7\text{ cm}$
Triangle 2 : $PQ = 5\text{ cm}$, $PR = 6\text{ cm}$, $QR = 7\text{ cm}$
By which congruence rule are the two triangles congruent ?
(A) SAS (B) ASA (C) ☒ SSS (D) RHS
109. 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

110. 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 $\pi = 22/7$)
 (A) 4.033 m/s (B) 3.5 m/s (C) 4.044 m/s (D) 3.044 m/s
111. 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
112. What is the least perfect cube divisible by both 4 and 6?
 (A) 432 (B) 216 (C) 442 (D) None of the options
113. The area of a square garden is 2025 m^2 . The length of one side of the garden is _____
 (A) 45 m (B) 40 m (C) 50 m (D) 42 m
114. 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
115. 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.
116. 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
117. How many faces does a square pyramid have?
 (A) 1 (B) 2 (C) 4 (D) 5
118. 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

119. In $\triangle ABC$, if $\angle A = \angle B$ and $\angle C = 125^\circ$, then

(A) $\angle A = \angle B = 27^\circ$

(B) $\angle A = \angle B = 37.5^\circ$

(C) $\angle A = \angle B = 27.5^\circ$

(D) None of the options

120. 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) $\frac{249}{360}$

121. 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

122. Upon throwing two dice, what is the probability that the sum of the numbers on the two dice is 7?

(A) $1/12$

(B) $1/8$

(C) $1/6$

(D) $1/9$

123. 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

124. The perimeter of a square is equal to the area of a rhombus. One diagonal of the rhombus is equal 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

125. 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 m^2 , what is the total expense of tiling the path?

(A) ₹4300

(B) ₹4200

(C) ₹4480

(D) ₹4000

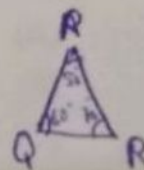
126. A triangle PQR has angles 50° , 60° and 70° . The triangle is :

(A) Obtuse-angled

(B) Acute-angled

(C) Right-angled

(D) Scalene



127. 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
128. Convert the following :
 (i) 2500 cm^2 into m^2
 (ii) 0.75 m^3 into cm^3
 (A) (i) 0.25 m^2 (B) (i) 0.025 m^2
 (ii) 7.5 cm^3 (ii) 750000 cm^3
 (C) (i) 0.25 m^2 (D) (i) 0.25 m^2
 (ii) 7500 cm^3 (ii) 750000 cm^3
129. What is the minimum number to be subtracted from 200 to make it a perfect square ?
 (A) 9 (B) 5 (C) 6 (D) 4
130. Find the median of the following data set :
 5, 12, 7, 9, 10
 (A) 7 (B) 9 (C) 10 (D) 12
131. 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 cm^3 (B) 521 cm^3 (C) 412 cm^3 (D) 421 cm^3
132. 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
133. If 12 pens cost ₹ 18, how many pens can be bought for ₹ 30 ?
 (A) 18 (B) 20 (C) 24 (D) 22
134. 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.

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

- (A) 6 (B) 8 (C) 10 (D) 12

$$\frac{360}{45} = \frac{1260}{15}$$

136. If the diameter of a circle is 20 cm, find its area. (Use $\pi = 3.14$)

- (A) 314 cm^2 (B) 312 cm^2 (C) 315 cm^2 (D) 316 cm^2

$$3.14 \times \frac{10^2}{2} = \frac{314 \times 100}{2}$$

137. 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

138. 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

$$64 = \frac{1}{2} \times 8 \times h$$
$$128 = 8h$$
$$h = 16$$

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

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

140. 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

$$3x = x + 18$$

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

- (A) 6 (B) 8 (C) 12 (D) 10

$$8 + V - 18 = 2$$
$$V = 2 + 18 - 8$$
$$V = 12$$

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

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

$$3 \times 5 \times 4 \times 4$$
$$15 \times 16$$

143. 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

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

(A) $\frac{\pi}{34}$ cm

(B) $\frac{34}{\pi}$ cm

(C) $\frac{\pi}{24}$ cm

(D) $\frac{24}{\pi}$ cm

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

(A) -3

(B) -7

(C) 7

(D) 0

146. 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

147. Which of the following evaluates to an integer?

(A) $\sqrt{10}$

(B) 4.5

(C) $\frac{-\sqrt{81}}{3}$

(D) 1.2

148. 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

149. 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

150. 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}

PART - II
SECTION - V : SCIENCE

151. Please help Ravi to choose the correct statement about the endoplasmic reticulum (ER) found in a eukaryotic 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.
152. 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.
153. 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
154. Which of the following diseases is **not** a bacterial disease ?
- ☒ (A) Pneumonia
 - (B) Urinary Tract Infections (UTIs)
 - ☒ (C) COVID-19
 - (D) Tuberculosis (TB)
155. 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
156. Ravi knows that Vaccines are made up of :
- (A) Chemicals
 - ☒ (B) Weak microorganisms
 - (C) Viruses
 - (D) Drugs
157. 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 sun.
 - (D) The nucleus is a single, central structure.
158. Which of the following is **not** made using natural gas ?
- (A) Plastics
 - (B) Fertilizers
 - ☒ (C) Glass bottles
 - (D) Synthetic
159. 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

160. 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.
161. 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.
162. 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.
163. 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.
164. 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
165. 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
166. 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
167. 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

168. 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
169. Which tool does Ram use to check if the washing machine is receiving electric current ?
(A) Multimeter (B) Calorimeter (C) Barometer (D) Thermometer
170. Ovum and Eggs are formed in :
(A) Ovary (B) Fallopian tubes (C) Oviduct (D) Penis
171. Focal length of plane mirror is :
(A) Zero (B) Infinity
(C) Half its aperture (D) Double its aperture
172. 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
173. 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
174. 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.
175. 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.
176. 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.

177. 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 CO₂ 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
178. 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
179. 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.
180. 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
181. 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
182. Adam's apple is :
(A) Red apple (B) Unripe apple
(C) Mammary Gland (D) ☒ Laryngeal prominence
183. Which among the following are **not** Lustrous non-metals ?
(A) Diamond (B) Graphite (C) Iodine (D) ☒ Copper
184. 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.
185. 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

186. Sound plays a vital role in our daily lives because —
(A) Sound can travel through space
(B) Sound waves cannot generate heat
(C) ~~Infra~~sound waves cause cavitation, helping to break down contaminants in liquids
(D) Sound waves are used in medical applications such as ultrasound imaging and stethoscopes
187. Aeroplane while flying in air experiences which type of friction ?
(A) Sliding friction
(B) Drag friction
(C) Dynamic friction
(D) ~~Static~~ friction
188. 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.
189. 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.
190. Which among the following is **not** a type of asexual reproduction ?
(A) Budding
(B) ~~Zygote formation~~
(C) Regeneration
(D) Fragmentation
191. Which of the following facts supports global warming statement ?
(A) Volcanoes emit more CO₂ 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~~
192. Which of the following is an example of in-situ conservation ?
(A) Zoological Park
(B) National Park
(C) Botanical garden
(D) ~~Laboratory Culture~~
193. 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.

194. 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 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.
195. 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
196. 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)
197. Natural coolant present in human body is :
- (A) Blood
 - (B) Plasma
 - (C) Water
 - (D) Salt ions
198. 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
199. 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.
 - (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.
200. 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

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