

Directions : In Question Nos. 81 to 85, choose the word opposite in meaning to the given word and mark it in the Answer Sheet.

81. Equilibrium

- (A) Work out
- (B) Disturb
- (C) Imbalance
- (D) Uncertainty

82. Immortal

- (A) Eternal
- (B) Permanent
- (C) Deathly
- (D) Temporary

83. Focus

- (A) Disappear
- (B) Disperse
- (C) Link
- (D) Layer

84. Veteran

- (A) Activist
- (B) Enthusiast
- (C) Novice
- (D) Master

85. Superfluous

- (A) Essential
- (B) Excess
- (C) Unwanted
- (D) Necessary

Directions : In Question Nos. 86 to 90 out of the four alternatives, choose the one which best expresses the meaning of the given word and mark it in the Answer Sheet.

86. Persevere

- (A) Fickle
- (B) Persist
- (C) Constant
- (D) Politic

87. Pettish

- (A) Rotund
- (B) Admiration
- (C) Arrogant
- (D) Vocation

88. Proposition

- (A) Intimation
- (B) Protestation
- (C) Proposal
- (D) Invitation

89. Vivacious

- (A) Immature
- (B) Lively
- (C) Perceptible
- (D) Tangled

90. Sporadic

- (A) Timely
- (B) Scattered
- (C) Frequent
- (D) Irrelevant

Directions : In Question Nos. 91 to 95, four alternatives are given for the word/phrase underlined in the sentence. Choose the alternative which best expresses the meaning of the underlined phrase and mark it in the Answer Sheet.

91. You cannot show this into houses.

- (A) terrify me
- (B) cheat me
- (C) hurt me
- (D) abuse me

92. He spoke well though it was his unseen speech.

- (A) long speech
- (B) first speech
- (C) brief speech
- (D) emotional speech

93. The students were all anxious, when the teacher started talking about the changes in the exam.

- (A) unwilling
- (B) afraid
- (C) restless
- (D) attentive

94. In his child days he was quite a sturdy.

- (A) childhood
- (B) adolescence
- (C) school days
- (D) old age

95. He is anxious about working at night.

- (A) ready to work
- (B) not ready to work
- (C) excited about working
- (D) grouchily working

Directions : In Question Nos. 96 to 100, a part of the sentence is underlined. Below are given alternatives to the underlined part in (A), (B), (C) which may improve the sentence. Choose the correct alternative. In case no improvement is needed, your answer is (D). Mark your answer in the Answer Sheet.

96. Sohan is pleased at the news yesterday.

- (A) has been pleased
- (B) had been pleased
- (C) was pleased
- (D) No improvement

97. She did not like the movie, nor I did.
OR nor did I.

- (A) nor I like it.
- (C) nor did I like it.
- (D) No improvement

98. Old habits die hardly.

- (A) hard
- (B) too hard
- (C) much hardly
- (D) No improvement

99. One cannot be indifferent. (i) one's health can't cope.

- (A) can't be?
- (B) can one?
- (C) can't?
- (D) No improvement

100. The mother with her children were expected.

- (A) was
- (B) will
- (C) have
- (D) No improvement

Part - III
QUANTITATIVE APTITUDE

101. The value of

$$\frac{\sin 25^\circ \cos 65^\circ + \cot 25^\circ \sin 55^\circ}{\tan 70^\circ - \csc 20^\circ}$$
 is
 (A) -1 (B) 0 (C) 1 (D) 2
102. If θ is a positive acute angle and $4 \cos^2 \theta - 4 \cos \theta + 1 = 0$, then the value of $\tan(\theta - 15^\circ)$ is equal to
 (A) 0 (B) 1 (C) $\sqrt{3}$ (D) $\frac{1}{\sqrt{3}}$
103. If $(r \cos \theta - \sqrt{3})^2 + (r \sin \theta - 1)^2 = 0$, then the value of $\frac{r \tan \theta + \sec \theta}{r \sec \theta + \tan \theta}$ is equal to
 (A) $\frac{4}{5}$ (B) $\frac{5}{4}$ (C) $\sqrt{3}/4$ (D) $\sqrt{5}/4$
104. A vertical pole and a vertical tower are standing on the same level ground. Height of the pole is 10 metres. From the top of the pole the angle of elevation of the top of the tower and angle of depression of the foot of the tower are 60° and 30° respectively. The height of the tower is
 (A) 20 m (B) 30 m (C) 40 m (D) 50 m
105. The sum of the interior angles of a polygon is 1440° . The number of sides of the polygon is
 (A) 6 (B) 9 (C) 10 (D) 12
106. In $\triangle ABC$, D and E are two points on the sides AB and AC respectively so that $DE \parallel BC$ and $\frac{AD}{BD} = \frac{2}{3}$. Then $\frac{\text{the area of trapezium } DECB}{\text{the area of } \triangle ABC}$ is equal to
 (A) $\frac{5}{9}$ (B) $\frac{21}{25}$ (C) $\frac{4}{5}$ (D) $\frac{5}{4}$
107. The H.C.F. and L.C.M. of two numbers are 44 and 264 respectively. If the first number is divided by 2, the quotient is 44. The other number is
 (A) 147 (B) 528 (C) 132 (D) 264
108. A teacher wants to arrange his students in an equal number of rows and columns. If there are 1369 students, the number of students in the last row are
 (A) 37 (B) 33 (C) 63 (D) 47
109. If $\frac{x}{y} = \frac{4}{5}$, then the value of $\left(\frac{4 - 2y - x}{2y + x} \right)$ is
 (A) $\frac{1}{2}$ (B) $1\frac{1}{2}$ (C) 1 (D) 2
110. A and B working separately can do a piece of work in 9 and 15 days respectively. If they work for a day alternately, with A beginning, then the work will be completed in
 (A) 10 days (B) 11 days (C) 9 days (D) 12 days
111. Ram left $\frac{1}{2}$ of his property to his widow and $\frac{3}{5}$ of the remainder to his daughter. He gave the rest to his son who received ₹ 6,400. How much was his original property worth?
 (A) ₹ 16,000 (B) ₹ 32,000 (C) ₹ 24,000 (D) ₹ 1,600
112. The first term of an Arithmetic Progression is 22 and the last term is 11. If the sum is 66, the number of terms in the sequence are
 (A) 10 (B) 12 (C) 9 (D) 8

SPACE FOR ROUGH WORK

113. Area of a regular hexagon with side $\sqrt{2}$ cm
 (A) $\frac{3\sqrt{3}}{4} a^2$ sq unit (B) $\frac{12}{2\sqrt{3}} a^2$ sq unit
 (C) $\frac{9}{2\sqrt{3}} a^2$ sq unit (D) $\frac{6}{\sqrt{2}} a^2$ sq unit
114. The marked price of a saree is ₹ 200. After allowing a discount of 20% on the marked price, the shopkeeper makes a profit of ₹ 16. Find the gain percent.
 (A) $11\frac{1}{9}\%$ (B) $9\frac{1}{11}\%$
 (C) 11% (D) 8%
115. The marked price of an item is twice the cost price. For a gain of 15%, the discount should be
 (A) 7.5% (B) 20.5%
 (C) 32.5% (D) 32.0%
116. Two numbers are in the ratio 3 : 4. If 9 is subtracted from each, the new numbers are in the ratio 12 : 23. The small number is
 (A) 27 (B) 33 (C) 49 (D) 55
117. If $x - y = 5$, $2x + 7y = 10$, $(8x + 2y) =$
 (A) 27 (B) 26 (C) 22 (D) 61
118. Two pipes A and B can fill a tank in 36 min and 45 min, respectively. Another pipe C can empty the tank in 30 min. First A and B are opened. After 7 minutes, C is also opened. The tank is filled up in
 (A) 39 min. (B) 40 min.
 (C) 40 min. (D) 45 min.
119. If the sum of the dimensions of a rectangular parallelepiped is 24 cm and the length of the diagonal is 15 cm, then the total surface area of it is
 (A) 429 cm² (B) 275 cm²
 (C) 351 cm² (D) 378 cm²

120. A total profit of ₹ 3,000 is to be distributed amongst A, B and C such that A : B = 5 : 4 and B : C = 8 : 9. The share of C in the profit is
 (A) ₹ 1,200 (B) ₹ 1,500
 (C) ₹ 1,680 (D) ₹ 1,800
121. A man sold his watch at a loss of 5%. Had he sold it for ₹ 20.25 more, he would have gained 10%. What is the cost price of the watch (in ₹)?
 (A) 370 (B) 365 (C) 375 (D) 390
122. $\frac{1}{2}\% \text{ of } \frac{1}{4} \text{ of } 25\% \text{ of } 1000$ is
 (A) 0.25 (B) .0025
 (C) .25 (D) .00025
123. The population of a village increases by 5% annually. If its present population is 4400, then its population 2 years ago was
 (A) 4500 (B) 4000
 (C) 3800 (D) 3500
124. A is twice as fast as B and B is thrice as fast as C. The journey covered by C in 15 hours will be covered by A in
 (A) 15 minutes (B) 20 minutes
 (C) 30 minutes (D) 1 hour
125. A sum of ₹ 210 was taken as a loan. This is to be paid back in two equal installments. If the rate of interest be 10% compounded annually, then the value of each instalment is
 (A) ₹ 127 (B) ₹ 123 (C) ₹ 210 (D) ₹ 225
126. The average salary of all the workers in a workshop is ₹ 8,000. The average salary of 7 technicians is ₹ 12,000 and the average salary of the rest is ₹ 6,000. The total number of workers in the workshop is
 (A) 29 (B) 21 (C) 22 (D) 23
127. 3 years ago the average age of a family of 5 members was 17 years. A baby having been born, the average age of the family is the same today. The present age of the baby is
 (A) 1 year (B) 1.5 years
 (C) 2 years (D) 3 years

SPACE FOR ROUGH WORK

128. A horse takes $2\frac{1}{2}$ seconds to complete a round around a circular field. If the speed of the horse was 66 m/sec, then the radius of the field is.
 (Given $\pi = \frac{22}{7}$)
 (A) 25.62 m (B) 26.52 m
 (C) 25.28 m (D) 26.25 m
129. A flask in the shape of a right circular cone of height 24 cm is filled with water. The water is poured in a right circular cylindrical flask whose radius is $\frac{1}{3}$ of the radius of the base of the circular cone. Then the height of the water in the cylindrical flask is
 (A) 32 cm (B) 24 cm
 (C) 48 cm (D) 72 cm
130. If the three medians of a triangle are same, then the triangle is
 (A) equilateral (B) isosceles
 (C) right-angled (D) obtuse-angled
131. If $\frac{1}{x} = \frac{1}{a} + \frac{1}{b}$, then the value of

$$\frac{ab^2 - 4x + 3}{a^2 - ab + b^2}$$

 is
 (A) 4/3 (B) 3/2 (C) 5/2 (D) 5/3
132. The area of a square park is 25 sq. km. The time taken to complete a round of the field once, at a speed of 3 km/hour is
 (A) 4 hours 60 minutes
 (B) 4 hours 50 minutes
 (C) 6 hours 40 minutes
 (D) 5 hours 40 minutes
133. The external fencing of a circular path around a circular plot of land is 33 m more than its interior fencing. The width of the path around the plots
 (A) 5.52 m (B) 5.25 m
 (C) 2.55 m (D) 2.25 m
134. If $x = p + \frac{1}{p}$ and $y = p - \frac{1}{p}$, then value of $x^2 - 2x^2y^2 + y^2$ is

$$(x^2 - y^2)^2$$

 (A) 24 (B) 4 (C) 16 (D) 8
135. If $x = 3 + 2\sqrt{2}$, then $\frac{x^6 + x^4 + x^2 + 1}{x}$ is equal to
 (A) 216 (B) 192 (C) 198 (D) 204
136. The perimeters of two similar triangles $\triangle ABC$ and $\triangle PQR$ are 36 cm and 24 cm respectively. If $PQ = 10$ cm, then the AB is
 (A) 15 cm (B) 12 cm
 (C) 14 cm (D) 20 cm
137. If the sides of a right-angled triangle are three consecutive integers, then the length of the smallest side is
 (A) 3 units (B) 2 units
 (C) 4 units (D) 5 units
138. Two circles intersect each other at the points A and B. A straight line parallel to AB intersects the circles at C, D, E and F. If $CD = 4.5$ cm, then the measure of EF is
 (A) 1.50 cm (B) 2.25 cm
 (C) 4.50 cm (D) 9.00 cm
139. Which one of the following is true?
 (A) $\sqrt{5} + \sqrt{3} > \sqrt{6} + \sqrt{2}$
 (B) $\sqrt{5} + \sqrt{3} < \sqrt{6} + \sqrt{2}$
 (C) $\sqrt{5} + \sqrt{3} = \sqrt{6} + \sqrt{2}$
 (D) $(\sqrt{5} + \sqrt{3})(\sqrt{6} + \sqrt{2}) = 1$
140. If $\frac{x}{xa+yb+zc} = \frac{y}{ya+zb+xc} = \frac{z}{za+xb+yc}$ and $x+y+z \neq 0$, then each ratio is
 (A) $\frac{1}{a+b+c}$ (B) $\frac{1}{a+b-c}$
 (C) $\frac{1}{a-b+c}$ (D) $\frac{1}{a+b+c}$

34. The length of the shadow of a vertical tower on level ground increases by 10 metres when the altitude of the sun changes from 45° to 30° . Then the height of the tower is
 (A) $5\sqrt{3} + 1$ metres
 (B) $5(\sqrt{3} - 1)$ metres
 (C) $5\sqrt{3}$ metres
 (D) $\frac{5}{\sqrt{3}}$ metres

Sales of Books (in thousand numbers) from Six Branches - B1, B2, B3, B4, B5 and B6 of a Publishing Company in 2000 and 2001. Study the graph and answer Question Nos. 142-145:



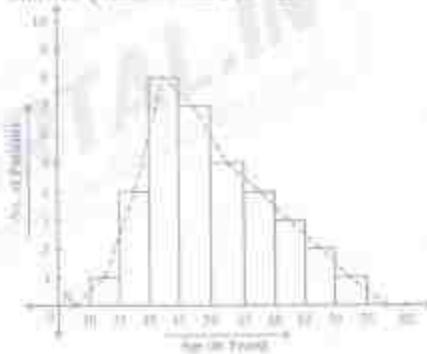
144. Percentage of the average sale of branches B1, B2 and B3 in 2001 and the average sale of branches B1, B2 and B6 in 2000.

(A) 37.5 (B) 75 (C) 77.5 (D) 82.5

145. Find the percentage increase in the sales of books of branch B3 in the year 2001 than the branch B2.

(A) 69.2 (B) 50.8 (C) 40.9 (D) 65.7

The diagram shows the age-distribution of the patients admitted to a hospital in a particular day. Study the diagram and answer Question Nos. 146 - 150.



146. Number of patients of age between 55 years to 60 years, who got admitted to the hospital on that day is
(A) 6 (B) 4 (C) 24 (D) 8

147. Total number of patients of age more than 55 years, who got admitted to the hospital is
(A) 4 (B) 7 (C) 9 (D) 10

148. Number of patients of age more than 40 years and less than 55 years, who got admitted to the hospital on that day is
(A) 30 (B) 39 (C) 15 (D) 12

147. Percentage of patients of age less than 45 years, who got admitted to the hospital on that day is approximately equal to
(A) 12% (B) 20% (C) 17% (D) 62%
148. About 11% of the patients who got admitted to the hospital on that particular day were of age
(A) either between 15 years and 40 years or between 55 years and 60 years
(B) between 40 years and 65 years
(C) between 25 years and 40 years
(D) between 15 years and 40 years and between 55 years and 60 years
- For Visually Handicapped Candidates Only**
142. If the simple interest and compound interest at the same rate of certain amount for 2 years are ₹ 400 & ₹ 426 respectively, then the rate of interest is
(A) 12% (B) 8%
(C) 10% (D) 11%
143. Three friends divide ₹ 624 among themselves in the ratio $\frac{1}{2} : \frac{1}{3} : \frac{1}{4}$. The share of the third friend is
(A) ₹ 208 (B) ₹ 192
(C) ₹ 148 (D) ₹ 144
144. In the expression x^2y^2 , the values of x and y are each decreased by 25%. The value of the expression is increased by
(A) $\frac{37}{64}$ of its value
(B) $\frac{1}{2}$ of its value
(C) $\frac{27}{64}$ of its value
(D) $\frac{3}{4}$ of its value
145. ₹ 64,000 will amount to ₹ 68,921 at 5% per annum and interest payable half yearly is
(A) $2\frac{1}{2}$ years (B) 2 years
(C) $2\frac{1}{2}$ years (D) $1\frac{1}{2}$ years
146. What is the value of an angle included between x-axis and y-axis in radians?
(A) $\frac{\pi}{6}$ (B) $\frac{\pi}{4}$
(C) $\frac{\pi}{3}$ (D) $\frac{\pi}{2}$
147. The value of $\frac{\tan^2 0^\circ - \cot^2 0^\circ}{1 + \tan^2 0^\circ - 1 - \cot^2 0^\circ}$ is equal to
(A) 0 (B) 1 (C) 2 (D) 3
148. The value of $(1,000,001)^{(1,000,000)^2}$ is
(A) 2,000,000 (B) 4,000,000
(C) 6,000,000 (D) 8,000,000
149. The sum of the squares of three consecutive natural numbers is 194. The sum of the numbers is
(A) 24 (B) 27 (C) 21 (D) 30
150. A vessel is in the form of an inverted cone. Its height is 11 cm and radius of its top, which is open, is 2.5 cm. It is filled with water up to the rim. When lead shot, each of which is a sphere of radius 0.25 cm are dropped into the vessel, $2/5$ of the water flows out. The number of lead shots required to fill the vessel is
(A) 830 (B) 440 (C) 220 (D) 110

Part - IV
GENERAL AWARENESS

151. The President of World Bank is
(A) Jim Yong Kim
(B) Christine Lagarde
(C) Premji
(D) Vijay L. Kelkar
152. Toluidine wrote *Ramcharitmanas* in the reign of
(A) Bahadur Shah Zafar
(B) Akbar
(C) Aurangzeb
(D) Jahangir
153. Grammy Award is given in the field of
(A) Acting
(B) Music
(C) Singing
(D) Boxing
154. The first woman to get the Bharat Ratna Award is
(A) Mother Teresa
(B) Indira Gandhi
(C) Lata Mangeshkar
(D) Sarojini Naidu
155. Karl Marx wrote
(A) Asian Drama
(B) Emma
(C) Das Kapital
(D) Good Earth
156. The religious text of the Jews is known as
(A) The Analecta
(B) Torah
(C) Tripitaka
(D) Zend-Avesta
157. "Meghdoot" was written by
(A) Humayun Kabir
(B) Khushwant Singh
(C) Basabhastra
(D) Kalidasa
158. Who among the following is a famous English writer?
(A) Amitav Ghosh
(B) Mahadev Venkatesh
(C) Ashokan Devi
(D) Mulk Raj Anand
159. Which of the following is not an economic problem?
(A) Deciding between paid work and leisure.
(B) Deciding between expenditure on one good and the other.
(C) Deciding between alternative methods of personal saving.
(D) Deciding between different ways of spending leisure time.
160. Which of the following occurs when labour productivity rises?
(A) The equilibrium nominal wage falls.
(B) The equilibrium quantity of labour falls.
(C) Competitive firms will be induced to use more capital.
(D) The labour demand curve shifts to the right.
161. Which of the following are continuous semi-durable goods?
(A) Cars and television sets
(B) Milk and milk products
(C) Foodgrains and other food products
(D) Electrical appliances like fans and electric items
162. Which of the following statements is correct?
(A) Most workers will work for less than their reservation wage.
(B) The reservation wage is the maximum amount any firm will pay for a worker.
(C) Economic rent is the difference between the market wage and the reservation wage.
(D) Economic rent is the amount pay to enter a desirable labour market.
163. Other things being equal, a decrease in quantity demanded of a commodity can be caused by
(A) a rise in the price of the commodity
(B) a rise in the income of the consumer
(C) a fall in the price of a commodity
(D) a fall in the income of the consumer

164. Who admits a new State to the Union of India ?
(A) President (B) Supreme Court
(C) Prime Minister (D) Parliament
165. In which year were the States recognized on a linguistic basis ?
(A) 1951 (B) 1957
(C) 1950 (D) 1956
166. Who has got the power to create All India Services ?
(A) Supreme Court
(B) The Parliament
(C) Council of Ministers
(D) Prime Minister
167. Which one of the following is the most lasting contribution of the Rashtraikars ?
(A) Kailash Temple
(B) Pampa, Potsa, Ranas, the three writers of Kannada Poetry and Kailash Temple
(C) Patronage of Jainism
(D) Conquests
168. Ravikirti, a Jain, who eulogized the Ahole Prashasti, was patronized by
(A) Pulakeshi I (B) Harsha
(C) Pulakeshi II (D) Khadavla
169. The "Heint Kampf" was written by
(A) Hitler (B) Mussolini
(C) Bismarck (D) Mazzini
170. When did the reign of Delhi Sultanate come to an end ?
(A) 1498 A.D. (B) 1526 A.D.
(C) 1565 A.D. (D) 1600 A.D.
171. In the provisional Parliament of India, how many members were there ?
(A) 296 (B) 313
(C) 318 (D) 316
172. It was decided to observe Mahatma Gandhi's birthday October 2 as the International Non-Violence Day at
(A) International Hinduology Conference
(B) Sathyagraha Centenary Conference
(C) Gadhada Foundation Day Celebration
(D) None of these
173. ISRO's Master Control Facility is in
(A) Andhra Pradesh (B) Orissa
(C) Gujarat (D) Karnataka
174. India is the largest producer and exporter of
(A) Cotton (B) Copper
(C) Tea (D) Mica
175. The soils which are rich in Calcium are known as
(A) Pediments (B) Pedalfidis
(C) Podzols (D) Lutrites
176. Cultivable land is defined as
(A) land actually under crops
(B) cultivable waste land + fallow land
(C) old fallow lands + sown fallow lands
(D) total fallow lands + crop grown areas
177. From which part of Osmun plant we extract opium
(A) Leaves (B) Stem
(C) Bark (D) Fruit coat
178. Which of the following is a biological method of soil conservation ?
(A) Contour farming
(B) Contour terracing
(C) Gully control
(D) Basin lining
179. Glucose is a type of
(A) Pentose sugar (B) Hexose sugar
(C) Tetrose sugar (D) Disaccharide
180. Number of mitochondria in bacterial cell is
(A) one (B) two
(C) many (D) zero
181. The original founder of the Manuscripts and Editor of Kautilya's Arthashastra was
(A) Srikranta Shastri
(B) Jayadeva Jayamal
(C) R. Shrimanshastri
(D) William Jones
182. Which of the following is the largest Biosphere Reserve of India ?
(A) Nilgiri
(B) Nauhadesi
(C) Simdarbar
(D) Gulf of Mannar

183. Rainbow is formed due to
(A) refraction and dispersion
(B) scattering and refraction
(C) diffraction and refraction
(D) refraction and reflection
184. Golden view of sea shell is due to
(A) Diffraction (B) Dispersion
(C) Polarization (D) Reflection
185. An object covers distance which is directly proportional to the square of the time. Its acceleration is
(A) increasing (B) decreasing
(C) zero (D) constant
186. If the horizontal range of a projectile is four times its maximum height, the angle of projection is
(A) 30° (B) 45°
(C) $\sin^{-1}\left(\frac{1}{4}\right)$ (D) $\tan^{-1}\left(\frac{1}{4}\right)$
187. Which place is called as "Silicon Valley" of India?
(A) Delhi (B) Pune
(C) Bangalore (D) Hyderabad
188. Telcos stands for
(A) Telephone Network
(B) Television Network
(C) Teletype Network
(D) Telefax Network
189. Which of the following metals has lowest melting point?
(A) Gold (B) Silver
(C) Mercury (D) Copper
190. The gas produced in marshy places due to decomposition of vegetation is
(A) Carbon monoxide
(B) Carbon dioxide
(C) Sulphur dioxide
(D) Methane
191. In cactus, the spines are the modified
(A) stem (B) saples
(C) leaves (D) bud
192. The smallest known prokaryotic organism is
(A) Microspira (B) Mycoplasma
(C) Bacteria (D) Chlorella
193. With what bi-region in the north
"Steppe" associated?
(A) Grasslands
(B) Tropical forests
(C) Scrubs
(D) Coniferous forests
194. About how much of the world's land area is tropical rainforest?
(A) 2 percent (B) 7 percent
(C) 10 percent (D) 15 percent
195. According to your text, what can "be thought of as the genetic library that keeps life going on Earth"?
(A) A no-engineering lab
(B) Human genes
(C) The Human Genome Project
(D) Biodiversity
196. The world's growing appetite for what food product is a leading cause of tropical deforestation?
(A) Pork (B) Sugar
(C) Lamb (D) Beef
197. "Last Divine" is a book written by
(A) M.K. Gandhi
(B) Rabindranath Tagore
(C) S. Radhakrishnan
(D) Sri Aurobindo
198. The Oscar Award was won 30 times by
(A) Charlie Chaplin
(B) Alfred Hitchcock
(C) Walt Disney
(D) Akira Kurosawa
199. The boiling point of water decreases at higher altitudes is due to
(A) low temperature
(B) low atmospheric pressure
(C) high temperature
(D) high atmospheric pressure
200. The chemical name of "Hypo" commonly used in photography is
(A) Sodium thiosulphate
(B) Silver nitrate
(C) Sodium nitrate
(D) Silver iodide

Test Form No.
2014 वर्ष संख्या
513 MP 7

AD-2014

AD -

Time Allowed : 2 Hours (For V.H. Candidates and Candidates Suffering From Cerebral palsy : 2 hrs. 40 Min.)
Maximum Marks : 200
Total Time : 2 hrs. 40 Min. (For V.H. Candidates and Candidates Suffering From Cerebral palsy : 2 hrs. 40 Min.)
Maximum Marks : 200

Read the following instructions carefully before you begin to answer the questions.
This Booklet contains questions in English as well as in Hindi Language.

प्रश्नों के उत्तर देने से पहले संक्षिप्त प्रश्न सभी अनुच्छेदों के लिए २ अंक (40 मिन.)
इस बुकलेट से प्रश्न लिखें ताकि हिन्दी द्वारा भी दिये गये हों।

INSTRUCTIONS TO CANDIDATES

- 1) The Headlines consist of 200 questions on all comprising the following items :-
 a) General Knowledge
 b) English Language
 c) Hindi Language
 d) Mathematics
 e) Science & Technology
 f) Current Affairs
- 2) In questions of Bilingual, in English and Hindi regions, choose of language, the English version will prevail.
- 3) All questions are compulsory and carry equal marks.
- 4) The paper carries a total weight of 20 marks and is to be answered in one hour.

Please note well to answer the questions you must check up that printed page consists of a complete all the pages [1-42] and set that is prior to writing, as expected. If you find any defect in this booklet, you must get it replaced immediately.

In this booklet, repeated the following topics separately by the linguistic heads and the other details of the booklets. Please remember this is the first booklet in the series. You can also see the second booklet which has been specially designed for the English and Hindi versions. The present booklet is mainly designed for general. These questions may be answered in any order. While answering these questions, you may also refer to the other booklets. Answer the questions in the order of the following sequence :-
 1. General Knowledge
 2. English Language
 3. Hindi Language
 4. Mathematics
 5. Science & Technology
 6. Current Affairs
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 20. Current Affairs

General Knowledge :- The questions in this section are based on the knowledge of the subjects like History, Geography, Economics, Politics, etc. which are not directly related to the syllabus of the examination.

English Language :- The questions in this section are based on the knowledge of the English language. It includes grammar, punctuation, sentence structure, etc. The questions in this section are based on the knowledge of the English language.

Hindi Language :- The questions in this section are based on the knowledge of the Hindi language.

Mathematics :- The questions in this section are based on the knowledge of the Mathematics.

Science & Technology :- The questions in this section are based on the knowledge of the Science & Technology.

Current Affairs :- The questions in this section are based on the knowledge of the current affairs.

The rough work is to be done on the answer sheet. A separate answer sheet has been provided below the question paper of Part I and Part II of this booklet.

Algebra papers and scientific examinations of various subjects are based on the examination syllabus. Candidates are advised not to consult previous papers before entering examination hall. Aspirants will have to bring it off or leave their notes after taking a copy with the permission of the controller. If using notes would be necessary, then it will be 10% extra time each being 10 minutes.

अनुच्छेदों के लिए अंक

- 1) प्रश्नों के उत्तर देने से पहले संक्षिप्त प्रश्न सभी अनुच्छेदों के लिए २ अंक (40 मिन.)
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 653) २२१
 654) २२३
 655) २२५
 656) २२७
 657) २२९
 658) २२१
 659) २२३
 660) २२५
 661) २२७
 662) २२९
 663) २२१
 664) २२३
 665) २२५
 666) २२७
 667) २२९
 668) २२१
 669) २२३
 670) २२५
 671) २२७
 672) २२९
 673) २२१
 674) २२३
 675) २२५
 676) २२७
 677) २२९
 678) २२१
 679) २२३
 680) २२५
 681) २२७
 682) २२९
 683) २२१
 684) २२३
 685) २२५
 686) २२७
 687) २२९
 688) २२१
 689) २२३
 690) २२५
 691) २२७
 692) २२९
 693) २२१
 694) २२३
 695) २२५
 696) २२७
 697) २२९
 698) २२१
 699) २२३
 700) २२५
 701) २२७
 702) २२९
 703) २२१
 704) २२३
 705) २२५
 706) २२७
 707) २२९
 708) २२१
 709) २२३
 710) २२५
 711) २२७
 712) २

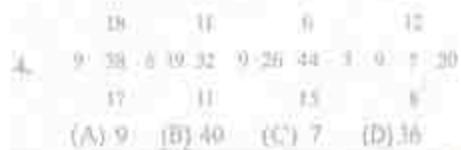
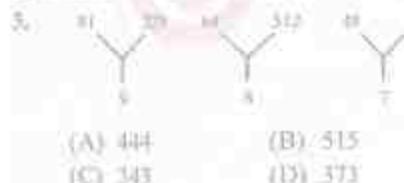
Part - I
GENERAL INTELLIGENCE

1. Ruju was to go to the planetarium. So he walked 1.5 kms towards east from the place and then turned to right and walked 2.5 kms and then turned towards east, walked 1 km and turned in south and walked 4 kms and reached the place by walking 2.5 kms towards west. What distance is he from the starting point?
- (A) 6.5 kms (B) 9.5 kms
 (C) 10 kms (D) 9 kms

A cyclist rides 40 kms to the east, turns north and rides 20 kms, again turns left and rides 20 kms. How far is he from the starting point?

- (A) 0 km (B) 10 kms
 (C) 20 kms (D) 30 kms

Directions: In Question Nos. 3 & 4, select the missing number from the given responses.



Directions (Q. Nos. 5 & 6) : Three statements are given followed by two/two conclusions I, II, III & IV. You have to consider the three statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follow from the given statements.

5. **Statements :**

1. Rabindranath Tagore wrote many poems.
2. Every poet has aesthetic knowledge.
3. Aesthetics is a part of etiological study.

Conclusions :

1. Rabindranath Tagore did different etiological study.
 2. He followed the base of logic and ethics.
- (A) Only conclusion I.
 (B) Both conclusions I and II.
 (C) Only conclusion II.
 (D) None of these.

6. **Statements :**

1. All clerks are superintendents.
2. All superintendents are managers.
3. All managers are supervisors.

Conclusions :

- I. All supervisors are clerks.
 - II. Some clerks are supervisors.
 - III. Some managers are clerks.
 - IV. All superintendents are clerks.
- (A) Only conclusion I.
 (B) Only conclusion II.
 (C) Only conclusion III.
 (D) Only conclusion IV.

Directions : In Question Nos. 7 to 15, select the related letter/word/number from the given alternatives.

7. Heart : Cardiologist ; Kidney : ?
(A) Endocrinologist (B) Orthodontist
(C) Nephrologist (D) Neurologist
8. DEF : EFD :: FGH : ?
(A) HFG (B) HGF
(C) HFG (D) GHF
9. AZB : CYD : EXF : ?
(A) GWH (B) FDY
(C) TMK (D) QSV
10. HGUOR : HDOOMS :: ? : REDNET
(A) TOUGH (B) THOUG
(C) HUGOT (D) HGUOT
11. 7 : 24 :: ?
(A) 30 : 100 (B) 23 : 72
(C) 19 : 58 (D) 17 : 43
12. 12 : 140 :: ?
(A) 1820 (B) 1500
(C) 1236 (D) 1121
13. 64 : 4 :: ? : 9
(A) 18 (B) 729
(C) 81 (D) 144
14. Maharashtra : India ; Texas : ?
(A) Canada (B) Mexico
(C) Brazil (D) USA
15. Quality : Nicest ; Burns : ?
(A) Fresh (B) Sour
(C) Sensible (D) Wet

Directions : In Question Nos. 16 to 23, find the odd word/number/letters/number pair from the given alternatives.

16. (A) Chameleon (B) Crocodile
(C) Alligator (D) Lizard
17. (A) BODG (B) GTJI
(C) FRSU (D) UWXZ
18. (A) MKHBD (B) CKHHC
(C) BDFACT (D) XVRPL
19. (A) DCEB (B) PNQST
(C) VKHGM (D) WPZLH
20. (A) 1625 (B) 3689
(C) 0481 (D) 2025
21. (A) 512 (B) 625
(C) 1296 (D) 2401
22. (A) Poland (B) Korea
(C) Spain (D) Greece
23. (A) Polaris (B) Nike
(C) Crux (D) Phoenix
24. Find the wrong number in the series :
30, 27, 36, 45, 72
(A) 30 (B) 27 (C) 36 (D) 72
- Directions :** In Question Nos. 25 to 27, which one of the given responses would be a meaningful order of the following ?
25. 1. Oil 2. Milk 3. Butter milk
4. Cow 5. Ghee 6. Butter
(A) 2, 5, 6, 4, 1, 3 (B) 4, 6, 2, 1, 3, 5
(C) 4, 2, 1, 3, 6, 5 (D) 2, 6, 4, 5, 3, 1
26. 1. Reading 2. Listening
3. Writing 4. Speaking
(A) 4, 2, 1, 3 (B) 2, 4, 3, 1
(C) 2, 4, 1, 3 (D) 1, 3, 2, 4
27. 1. Adulthood 2. Infancy
3. Childhood 4. Adolescence
(A) 1, 3, 4, 2 (B) 2, 3, 4, 1
(C) 2, 4, 3, 1 (D) 1, 2, 3, 4

SPACE FOR ROUGH WORK

Directions : In Questions Nos. 28 to 32, a series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.

28. 3, 15, 4, 16, 5, 17, 6, ?
(A) 13 (B) 13 (C) 15 (D) 19
29. 98, 81, 96, ?, 63
(A) 105 (B) 110 (C) 115 (D) 130
30. 121, 125, 124, 125, ?, 124
(A) 125 (B) 123
(C) 116 (D) 110
31. CE, GL, KM, OQ, ?
(A) TW (B) TV (C) SU (D) RT
32. R, O, L, T, F, ?
(A) C (B) A (C) E (D) I
33. A family consisted of a man, his wife, by three sons, their wives and three children in each son's family. How many members are there in the family?
(A) 12 (B) 13 (C) 15 (D) 17
34. From the given alternatives select the word which cannot be formed using the letters of the given word.
INFLATIONARY
(A) FLAIR (B) FAULTY
(C) NATIONAL (D) RATION
35. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?
R _ d _ e _ c _ b _ d _ h _
(A) b _ d _ d _ d _ h (B) b _ b _ d _ d _ h
(C) a _ d _ d _ d _ h (D) a _ d _ b _ b _ h
36. Manu is double the age of Padmini. Renuka is half the age of Padmini. If Manu is sixty, find out the age of Renuka.
(A) 20 (B) 15 (C) 10 (D) 24

37. Let $J = 1$, $K = 2$, $L = 5$, $M = 7$

Find the letter to be inserted in the box in the relation given:

$$(N \times \boxed{ }) + M = X = 31$$

$$(A) L (B) P (C) J (D) O$$

38. Some equations are solved on the basis of a certain system. On the same basis, find out the correct answer for the unsolved equation.

$$2 \times 3 \times 4 = 12 \quad 5 \times 6 \times 7 = 165$$

$$7 \times 8 \times 9 = 687 \quad 2 \times 5 \times 7 = ?$$

$$(A) 572 (B) 52 (C) 725 (D) 257$$

39. The overall rainfall in certain region of India decreases year after year. Find out from the data the trend in decrease.

Year	Rainfall (in mm)
2009	26
2010	29
2011	21
2012	20
2013	16
2014	11
2015	7

- (A) 9 mm (B) 7 mm
(C) 5 mm (D) 3 mm

40. If PALE is coded as 2134, EARTH is coded as 41590, how is PFAKL coded?
(A) 29530 (B) 34153
(C) 25413 (D) 25430

41. If the word PRINCIPAL is written as LAPICNIRP, how ADOLESCENCE can be written in that code?

- (A) ECNCSEHLODA
(B) ECNECSLHLODA
(C) ECNSCEHLODA
(D) ECNPCEHLODA

SPACE FOR ROUGH WORK

42. How many rectangles are there in the question figure?

Question figure :



- (A) 4 (B) 7 (C) 8 (D) 9

43. Among the four answer figures, which figure can be formed from the cut-pieces given below in the question figure?

Question figure :



Answer figures :



- (A) (B) (C) (D)

Directions : In Questions Nos. 44 and 45, which one of the following diagrams represents the correct relationship among :

44. Lion, Fox and Carnivorous



45. Manager, Labour Union and Worker



46. Which answer figure will complete the question figure?

Question figure :



Answer figures :

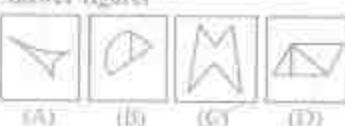


- (A) (B) (C) (D)
47. Which of the answer figures is embedded in the question figure?

Question figure :



Answer figures :



- (A) (B) (C) (D)
48. A piece of paper is folded and cut as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.

Question figures :



Answer figures :



- (A) (B) (C) (D)

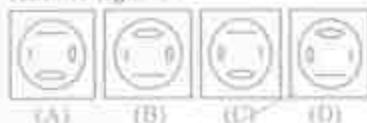
SPACE FOR ROUGH WORK

49. If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure?

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Analytic Features:



50. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix-I are numbered from 0 to 4 and that of Matrix-II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g. A can be represented by 01, 26, 42 etc., and H can be represented by 65, 57, 98 etc. Similarly, you have to identify the set for the word given in the question.

FATHER

Matrix-I					Matrix-II				
0	1	2	3	4	5	6	7	8	9
F	A	N	O	I	S	E	H	B	T
I	O	F	A	N	H	S	E	T	B
A	N	O	I	F	B	T	S	E	H
N	O	I	A	F	E	H	T	B	S
O	I	A	E	N	T	S	E	H	B
I	A	E	N	O	B	S	T	H	F
A	E	N	H	S	F	T	B	E	I
E	N	H	S	T	I	B	F	E	A

- (A) 24, 31, 10, 59, 57
 (B) 12, 20, 40, 68, 85
 (C) 31, 34, 23, 78, 39
 (D) 45, 42, 41, 78, 89

For Visually Handicapped Candidates Only

Directions : In Question Nos. 42 to 45, select the related word/letter/number from the given alternatives.

42. Earthworm : Mud ; Crab : ?
 (A) Sea (B) Water
 (C) Sand (D) Bank

43. Peacock : India :: Bear : ?
(A) Australia (B) America
(C) Russia (D) England

44. UTS : EDC :: WYU : ?
 (A) XWV (B) WYZ
 (C) SDM (D) RPO

- (A) 16 (B) 27 (C) 15 (D) 31

Directions : In Question Nos. 46 and 47, find the odd word/number/letters/number pair from the given alternatives.

47. (A) Tomato (B) Cucumber
(C) Grapes (D) Potato

48. Choose the correct alternative from the given ones that will complete the series :
FDBZ, GECA, MKIU, PN LJ, ?
 (A) WNTR (B) WUSQ
 (C) WUSR (D) JHFD

Directions : In Question No. 47 and 50, find which one is different from the rest of the following.

49. 1, 4, 9, 16, 25, 36, 49, 64, 81, 100, 111
 (A) 25 (B) 91 (C) 36 (D) 100

50. $\frac{2}{3}, \frac{3}{4}, 12, 48, 192, 1440$
 (A) 98 (B) 192 (C) 12 (D) 1440

ENGLISH LANGUAGE

Directions : In Question Nos. 51 to 55, out of the four alternatives choose the one which can be substituted for the given word/sentence.

51. A poem of fourteen lines.
 (A) Ballad (B) Psalm
 (C) Sonnet (D) Caef
52. Incapable of error.
 (A) Erroneous (B) Inscrutable
 (C) Unbeatable (D) Infallible
53. One who believes everything he or she hears.
 (A) Credulous (B) Credible
 (C) Creditable (D) Credential
54. An allowance made to a wife by her husband, when they are legally separated.
 (A) Alimony (B) Pimony
 (C) Matrimony (D) Matrimony
55. Wild imagination.
 (A) Wiles (B) Fantasy
 (C) Fancy (D) Memory

Directions : In Question Nos. 56 to 60, four words are given in each question, out of which only one word is correctly spelt. Find the correctly spelt word and mark your answer in the Answer Sheet.

56. (A) Mountaineer (B) Mountaineer
 (C) Mountaineer (D) Mountaineer
57. (A) Happened (B) Happened
 (C) Hapeined (D) Hapeined
58. (A) Sentimentalist (B) Semimentalist
 (C) Sentimenterist (D) Sentimentalist
59. (A) Lieberman (B) Lissberman
 (C) Liebertarian (D) Liberman
60. (A) Emphetic (B) Empathetic
 (C) Emphatic (D) Emphatic

Directions : In Question Nos. 61 to 70, in the following passage some of the words have been left out. Read the passage carefully and choose the correct answer to each question out of the four alternatives and fill in the blanks.

Delhi 61, the capital of India. People from all parts of the country and the world 62 to Delhi. There 63 many historical buildings. People 64 the Red Fort, Shanti Van and Vijaygiri. We visited Delhi last year 65 our account. There 66 many other historical cities. Agra 67 one of them. We 68 visit Agra and Jaipur next time. The Red Fort of Delhi and the Hazira Mahal of Jaipur were 69 famous for their Mughal 70 Rajasthani architecture respectively.

61. (A) was (B) are
 (C) it (D) were
62. (A) come (B) comes
 (C) come (D) coming
63. (A) has (B) have
 (C) is (D) see
64. (A) will (B) visited
 (C) visiting (D) visits
65. (A) for (B) in
 (C) of (D) with
66. (A) is (B) are
 (C) were (D) was
67. (A) see (B) sees
 (C) B (D) were
68. (A) will (B) would
 (C) could (D) can
69. (A) much (B) very
 (C) too (D) more
70. (A) either (B) because
 (C) or (D) and

Directions : In Question Nos. 71 to 75, some parts of the sentences have errors and some are correct. Find out which part of a sentence has an error and blacken the oval [●] corresponding to the appropriate letter (A, B, C). If a sentence is free from errors, blacken the oval corresponding to (D) in the Answer Sheet.

71. I worked as medical representative.
(A) (B)
for eight months. No error
(C) (D)

72. Shakespeare has written many plays.
(A) (B)
as well as some poetries. No error
(C) (D)

73. Most of the girls were willing to
(A) (B)
join the program. No error
(C) (D)

74. A directing book, 'A Tale of two
cities', was written by Alexander
(A) (B)
Dumas. No error
(C) (D)

75. In India, there are many poor
(A) (B) (C)
people. No error
(D)

Directions : In Question Nos. 76 to 80, sentences given with blanks to be filled in with an appropriate word(s). Four alternatives are suggested for each question. Choose the correct alternative out of the four and indicate it by blackening the appropriate oval [●] in the Answer Sheet.

76. Is not learning superlative _____ wealth?
(A) than (B) from
(C) by (D) to

77. A group of agitators _____ the mob to
break down the Vice-Chancellor's
door.
(A) wished (B) excited
(C) threatened (D) festered

78. Turn the lights _____ before you
go to bed.
(A) on (B) off
(C) out (D) down

79. There is no _____ excellence in
support your assertion.
(A) finite (B) fictitious
(C) fiction (D) factual

80. Throw a stone _____ the fierce dog.
(A) at (B) upon
(C) on (D) above