



50114

75. Which equation is equivalent to $1 - \frac{6}{t^2} = \frac{1}{t}$?

(A) $(t-3)(t+2) = 0$

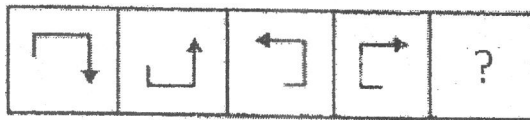
(B) $(t-2)(t+3) = 0$

(C) $(2t+1)(3t-1) = 0$

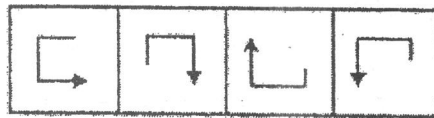
(D) $(2t-1)(3t+1) = 0$

Direction (Qn. Nos. 76 and 77): In the following figure series, the last one is missing. Identify the figure from among the choices which would complete the series.

76.



1 2 3 4 5



a b c d

(A) a

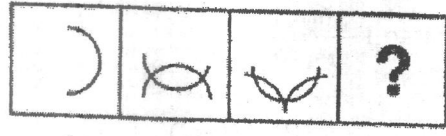
(B) b

(C) c

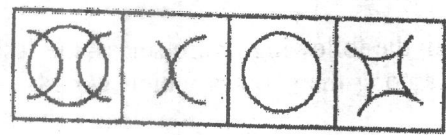
(D) d



77.



1 2 3 4



a b c d

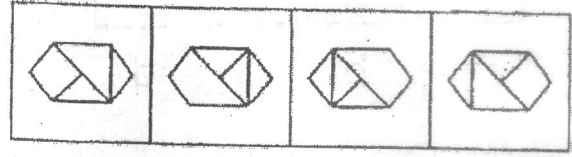
- (A) a
- (B) b
- (C) c
- (D) d

Direction (Qn. Nos. 78 and 79): Choose the correct mirror-image of the figure (x) from amongst the four alternatives (a), (b), (c), (d) given along with it.

78.



(x)

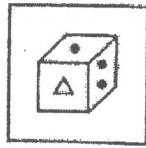


a b c d

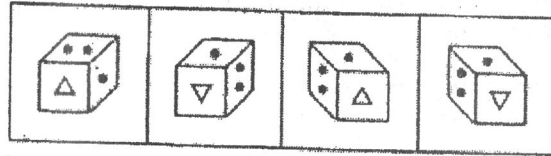
- (A) a
- (B) b
- (C) c
- (D) d



79.



(X)



a

b

c

d

- (A) a
- (C) c

- (B) b
- (D) d

Direction (Qn. Nos. 80 – 82): This set contains sequence questions that use a series of non-verbal and non-number symbols. Look carefully at the sequence of symbols to find the pattern.

80. ?

- (A)
- (C)

- (B)
- (D)

81. ?

- (A)
- (C)

- (B)
- (D)

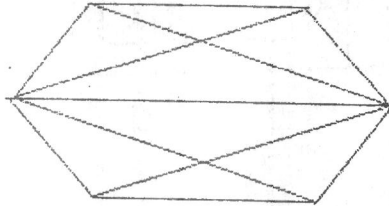
82. ?

- (A)
- (C)

- (B)
- (D)



Direction (Qn. Nos. 83 and 84): Analyse the following figure and choose the correct answer.



83. Find the number of quadrilaterals

- | | |
|-------|--------|
| (A) 6 | (B) 7 |
| (C) 9 | (D) 10 |

84. Find the number of pentagons

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

Direction (Qn. Nos. 85 – 88): Select the related pair that expresses the relationship that is MOST similar to that of the capitalised pair.

85. NITROGEN : GASEOUS :: _____ : _____

- | | |
|-----------------------------|---------------------|
| (A) Oxygen : organic matter | (B) Lead : heavy |
| (C) Feather : weightless | (D) Mercury : fluid |

86. LUGUBRIOUS : SORROWFUL :: _____ : _____

- | | |
|---------------------------|-------------------------|
| (A) Unhappy : gloomy | (B) Lustrous : luscious |
| (C) Credible : incredible | (D) Euphoric : cheerful |

87. WEIGHT : KILOGRAM :: _____ : _____

- | | |
|-------------------|--------------------------|
| (A) Pint : liquid | (B) Distance : kilometre |
| (C) Mile : length | (D) Pound : weight |



50114

88. PAIN : MISERY :: _____ : _____

- (A) Disease : poverty (B) Despair : loneliness
(C) Ignorance : confusion (D) Superstition : peasants

Direction (Qn. Nos. 89-94): Of the four choices given in the following groups of words, three are similar. Identify the word which does not belong to the group.

89.

- (A) Leopard (B) Cougar
(C) Elephant (D) Lion

90.

- (A) Tape (B) Twine
(C) Cord (D) Yarn

91.

- (A) Branch (B) Dirt
(C) Leaf (D) Root

92.

- (A) Noun (B) Preposition
(C) Punctuation (D) Adverb

93.

- (A) Inch (B) Ounce
(C) Centimetre (D) Yard

94.

- (A) Cornea (B) Retina
(C) Pupil (D) Vision



Direction (Qn. Nos. 95 – 99): Study the following information carefully and answer the questions given below it.

A sales representative plans to visit each of six companies M, N, P, Q, R and S exactly once during the course of one day. She is setting up her schedule for the day according to the following conditions:

- (i) She must visit M before N and R
- (ii) She must visit N before Q
- (iii) The third company she visits must be P

95. Which of the following must be true of the sales representative's schedule?
- (A) She visits M before Q (B) She visits N before R
(C) She visits P before M (D) She visits P before S
96. If the sales representative visits S first, which company must she visit second?
- (A) M (B) N
(C) P (D) Q
97. The sales representative could visit any of the following companies immediately after P except
- (A) S (B) R
(C) Q (D) M
98. If the sales representative visits Q immediately before R and immediately after S, she must visit Q
- (A) First (B) Second
(C) Fourth (D) Fifth
99. Which of the following could be the order in which the sales representative visits the six companies?
- (A) M,S,P,N,R,Q (B) Q,N,P,R,S,M
(C) M,R,N,Q,P,S (D) P,S,M,R,Q,N



50114

Direction (Qn. Nos. 100 – 105): Study the following information and answer the questions given below it.

A blacksmith has five iron articles A , B , C , D and E , each having a different weight.

- (i) A weighs twice as much as B
- (ii) B weighs four and a half times as much as C
- (iii) C weighs half as much as D
- (iv) D weighs half as much as E
- (v) E weighs less than A but more than C

100. Which of the following is the lightest in weight?

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

101. E is lighter in weight than which of the other two articles?

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

102. Which of the above given statements is not necessary to determine the correct order of the articles according to their weights?

- (A) (i)
- (B) (ii)
- (C) (iii)
- (D) (v)

103. E is heavier than which of the following two articles?

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

104. Which of the following articles is the heaviest in weight?

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



105. Which of the following represents the descending order of weights of the articles?

- (A) A, B, E, D, C (B) B, D, E, A, C
(C) E, C, D, A, B (D) C, A, D, B, E

106. Although most of the fastest growing jobs in today's economy will require a college degree, many of the new jobs being created from home health aide to desktop publisher-require knowledge other than that gained from earning a degree. For workers in those jobs, good basic skills in reading, communication, and mathematics play an important role in getting a job and developing a career.

From the information given above it can be validly concluded that, in today's economy,

- (A) skills in reading, communication, and mathematics play an important role in developing a career as a desktop publisher
(B) the majority of the new jobs being created require knowledge other than that gained from earning a college degree
(C) a job as a home health aide will rely more on communication skills than on basic skills in reading and mathematics
(D) if a job is one of the fastest growing jobs, it will require a college degree

Direction (Qn. Nos. 107 – 113): In the following, the first set of two words expresses a relationship. Find out the word from among the choices given, that would complete the sentence and would express the same relationship as the first set of words.

107. 'Exercise is to gym' as 'eating is to

- (A) food (B) dieting
(C) fitness (D) restaurant

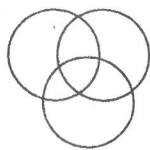
108. 'Secretly is to openly' as 'silently is to

- (A) scarcely (B) impolitely
(C) noisily (D) quietly

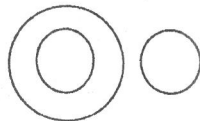


109. 'Careful is to cautious' as 'boastful is to
- (A) arrogant (B) humble
(C) joyful (D) suspicious
110. 'Reptile is to lizard' as 'flower is to
- (A) petal (B) stem
(C) daisy (D) alligator
111. 'Marathon is to race' as 'hibernation is to
- (A) winter (B) bear
(C) dream (D) sleep
112. 'Odometer is to mileage' as 'compass is to
- (A) speed (B) hiking
(C) needle (D) direction
113. 'Optimist is to cheerful' as 'pessimist is to
- (A) gloomy (B) mean
(C) petty (D) helpful

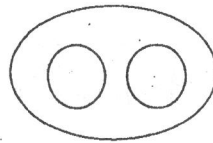
Direction (Qn. Nos. 114 – 118): In the following questions, three classes are given. One of the four figures given represents the relationship among the three classes stated in the question. Select the figure which best represents the relationship among the three classes.



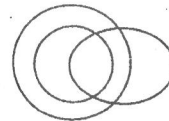
a



b



c



d

114. Women, Mothers, Widows

- (A) a (B) b
(C) c (D) d



115. Authors, Teachers, Men

- (A) a (B) b
(C) c (D) d

116. Sparrows, Birds, Mice

- (A) a (B) b
(C) c (D) d

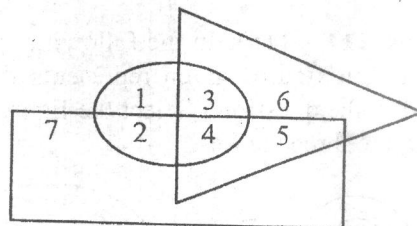
117. Tea, Coffee, Beverages

- (A) a (B) b
(C) c (D) d

118. Boys, Students, Athletes

- (A) a (B) b
(C) c (D) d

Direction (Qn. Nos. 119 – 122): In the following figure, the circle represents young persons, the triangle represents uneducated persons and the rectangle represents employed persons. Answer the questions based on the information.



119. Which region represents young, uneducated and employed persons?

- (A) 6 (B) 5
(C) 4 (D) 3



50114

120. The region which represents educated, employed young persons, is denoted by
- (A) 2 (B) 3
(C) 4 (D) 5
121. Which region represents young, educated and unemployed persons?
- (A) 7 (B) 4
(C) 1 (D) 5
122. Which region represents young, uneducated and unemployed persons?
- (A) 1 (B) 2
(C) 6 (D) 3

Direction (Qn. Nos. 123 – 130): Find out the missing number(s) in the series from among the choices given.

123. 8, 43, 11, 41, __, 39, 17
- (A) 8 (B) 14
(C) 43 (D) 44
124. 15, __, 27, 27, 39, 39
- (A) 51 (B) 39
(C) 23 (D) 15
125. 4, 7, 25, 10, __, 20, 16, 19
- (A) 13 (B) 15
(C) 20 (D) 28
126. 70, 71, 76, __, 81, 86, 70, 91
- (A) 70 (B) 71
(C) 80 (D) 96

127. 0.15, 0.3, __, 1.2, 2.4
- (A) 4.8 (B) 0.006
(C) 0.6 (D) 0.9
128. J14, L16, __, P20, R22
- (A) S24 (B) N18
(C) M18 (D) T24
129. VIII, XI, XIV, __, XX
- (A) IX (B) XXIII
(C) XV (D) XVII
130. 55, 54, 52, 49, __, __
- (A) 48, 46 (B) 45, 40
(C) 45, 39 (D) 45, 38

Directions (Qn. Nos. 131 – 133): In the following, a series is given with one term missing. Choose the correct alternative that will complete the series.

131. QPO NML KJI __ EDC
- (A) HGF (B) CAB
(C) JKL (D) GHI
132. JAK KBL LCM MDN __
- (A) OEP (B) NEO
(C) MEN (D) PFQ
133. QAR RAS SAT TAU __
- (A) UAV (B) UAT
(C) TAS (D) TAT



50114

134. If 'BUS' is coded as 'DWU', how will you code 'ROBS'?
- (A) SPCT (B) TQCV
(C) TQDU (D) SPDU
135. If 'ROAD' is coded as 'WTFI', how will you code 'BEAT' ?
- (A) URDG (B) UREG
(C) TQCF (D) GJFY
136. If 'LATE' is coded as 'PEXI', how will you code 'TRACE' ?
- (A) XVELI (B) XVEGI
(C) XVFGI (D) XUEGH
137. If 'HJSM' means 'GIRL', what does 'RNES' mean ?
- (A) BOYS (B) COWS
(C) TOYS (D) SOFT
138. 'DBMDVUUB' stands for 'CALCUTTA', how will you write 'BOMBAY'?
- (A) DQODDX (B) CPNCBZ
(C) DPNCBX (D) CPMCBZ
139. If 'FIRE' is coded for a secret message to be teleprinted as 'EHQD'. How should the answer 'DONE' be relayed?
- (A) DMOE (B) CNMD
(C) DLNC (D) DNPE
140. If in a certain language, POPULAR is coded as QPQVMBS, which word would be coded as GBNPVT?
- (A) FAMOSU (B) FAMOUS
(C) FASOUM (D) FOSAUM

141. If in a certain language, COVET is coded as FRYHW, which word would be coded as SHDUO?

- (A) QUAKE (B) REPAY
(C) STINK (D) PEARL

142. Gaurav walks 20 meters towards North. He then turns left and walks 40 meters. He again turns left and walks 20 meters. Further, he moves 20 meters after turning to the right. How far is he from his original position?

- (A) 20 meters (B) 30 meters
(C) 50 meters (D) 60 meters

Direction (Qn. Nos. 143 and 144): For the Assertions (A) and Reasons (R) given in each of the question below, choose the correct alternative from the following.

- a. Both A and R are true and R is the correct explanation of A.
b. Both A and R are true but R is not the correct explanation of A.
c. A is true but R is false
d. A is false but R is true

143. Assertion (A) : For the production of aluminium, cheap electricity is essential.

Reason (R) : Extraction of aluminium from its ore requires abundant supply of electricity.

- (A) a (B) b
(C) c (D) d

144. Assertion (A) : Photosynthesis takes place in all green plants.
Reason (R) : Chlorophyll is essential for Photosynthesis.

- (A) a (B) b
(C) c (D) d



50114

31

Direction (Qn. No. 145): Choose the best alternative to complete the sentence.

145. A book always has

- | | |
|--------------|--------------|
| (A) chapters | (B) pages |
| (C) contents | (D) pictures |

146. Which of the following is associated with diamond?

- | | |
|--------------|------------------|
| (A) Hardness | (B) Brilliance |
| (C) Use | (D) Conductivity |

Direction (Qn. Nos. 147 and 148): Find the odd man out.

147.

- | | |
|-------------|------------|
| (A) Sunday | (B) Monday |
| (C) Holiday | (D) Friday |

148.

- | | |
|-----------------|----------------|
| (A) Furnace oil | (B) Mobil oil |
| (C) Petrol | (D) Diesel oil |

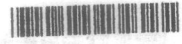
Direction (Qn. Nos. 149 and 150): In the following, a series is given with one term missing. Choose the correct alternative that will complete the series.

149. DEF DEF₂ DE₂F₂ _____ D₂E₂F₃

- | | |
|-------------------------------------|--------------------------------------------------|
| (A) DEF ₃ | (B) D ₃ EF ₃ |
| (C) D ₂ E ₃ F | (D) D ₂ E ₂ F ₂ |

150. BCB DED FGF HIH _____

- | | |
|---------|---------|
| (A) JKL | (B) HJH |
| (C) IJI | (D) JHJ |



SPACE FOR ROUGH WORK



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SEAL