Section IV: Intelligence & Critical Reasoning

Directions (Qs. 121 to 127) : Read the following statements to answer these questions :
Group Captain Malhotra is choosing the last part of his crew for the spaceship COSMOS, with which he plans to land on the moon. He needs 4 more crew members of whom at least two must be pilots, the others being engineers.

The candidates for Pilots are Dalbir, Eric and Farid. The candidates for Engineers are Lal, Monty, Naveen and Paul. Eric will not crew with Lal. Dalbir will not crew with Naveen.

121. If Naveen is chosen, which of the following must be other members of the crew ?

(1) Farid, Lal and Monty
(2) Dalbir, Eric and Monty
(3) Eric, Farid and Monty
(4) Eric, Farid and Paul

122. If Paul is chosen, which candidates will NOT be chosen to be on the crew?

(1) Dalbir, Eric and Monty
(2) Dalbir, Eric and Farid
(3) Dalbir, Farid and Lal
(4) Eric, Farid and Lal

123. Given the above statements about the relationships among the potential crew members, which of the following must be true?

A : If Dalbir is rejected, then Monty must be chosen.
B : If Dalbir is rejected, then Farid must be chosen.
C : If Dalbir is chosen, then Paul must also be chosen.

(1) B only
(2) C only
(3) A and B only
(4) A and C only

124. If Lal is chosen as an engineer, which of the following could be the other members of the crew?

A : Dalbir, Farid and Monty
B : Dalbir, Farid and Naveen
C : Dalbir, Farid and Paul

(1) A only
(2) B only
(3) C only
(4) A and C only

125. Which of the following statements must be true?

A : If Group Captain Malhotra chooses Lal, then Farid also must be chosen.
B : If Group Captain Malhotra chooses Monty, then Naveen must also be chosen.
C : Lal and Naveen never crew together.

(1) A only
(2) A and B only
(3) A and C only
(4) B and C only

126. If Paul is chosen to be the part of the COSMOS' crew and Dalbir is not, who must be the other members of the crew ?

(1) Eric, Farid and Lal
(2) Eric, Farid and Monty
(3) Eric, Farid and Naveen
(4) Farid, Lal and Monty

127. If Eric makes the crew and Farid does not, which of the following statements must be true ?

A : Paul will be a member of the crew.
B : Monty will be a member of the crew.

(1) Both A and B
(2) Neither A nor B
(3) A only (4) B only

Directions (Qs. 128 to 132): There is a blank space in each of these questions in which only one of the four Alternatives given under each question satisfies the same relationship as is found between the two terms on the other side of the sign: : . Find the correct alternative to fill in the blank space.

128. Telephone: Ring : :
_____ : _____
(1) Door : knock
(2) Gate : open
(3) Door : wood
(4) Lock : key

129. Deterioration : Rust : :
_____ : _____

(1) Recession : Inefficiency
(2) Depression : Unemployment
(3) Promulgation : Legislation
(4) Iron : Water

130. Dinosaur : Dragon : :
_____ : _____

(1) Evolution : Revelation
(2) Gorilla : Soldier
(3) Snow : Ice
(4) Primeval : Medieval

131. Condone : Offence : :
_____ : _____

(1) Overlook : Aberration
(2) Error : Omission
(3) Mitigate : Penitence
(4) Conviction : Criminal

132. Shoe: Leather : :
_____ : _____

(1) Bus : Conductor
(2) Train : Wagon
(3) Highway : Asphalt
(4) Medicine : Doctor

133. Find the odd one out :

(1) Grams
(2) Litres
(3) Tonnes
(4) Quintals

134. Find the odd one out :

(1) 25631
(2) 52163
(3) 33442
(4) 34424

135. Complete the series:
10, 18, 34, ??, 130, 258
(1) 32 (2) 60
(3) 68 (4) 66

136. Find out the right letters for the question marks:
A M B N E I F J C O D P G K ? ?

(1) M N
(2) L M
(3) I E
(4) G H

Directions (Qs. 137 to 141) : Mehta is the Director of investments for a mutual fund. He believes that blue-chip stocks and government securities will generally not do as well as corporate bonds in the coming year, but government regulations require that at least one-third of the fund's capital be in blue-chip stocks and another third in government securities.

137. Under current regulations, what seems to be the best way for Mehta to invest in the mutual fund?

(1) Two-thirds government securities, one-third blue chip stocks.
(2) Two-thirds government securities, one-third corporate bonds.
(3) One-third government securities, two-thirds corporate bonds.
(4) One-third each government securities, blue-chip stocks and corporate bonds.

138. If the mutual fund has Rs. 60 crore in assets, then what is the maximum that Mehta could invest in blue-chip stocks?

(1) 20 crore
(2) 30 crore
(3) 40 crore
(4) 50 crore

139. If the government regulations are changed to require only one-quarter whereas one-third was previously required, Mehta will probably

(1) Increase the fund's holdings of government securities.
(2) Increase the fund's holdings of corporate bonds.
(3) Increase the fund's holdings of blue-chip stocks.
(4) Hold more cash.

140. If the return on government securities suddenly goes up by five percentage points, Mehta will probably

(1) Sell blue-chip stocks to buy government securities.
(2) Sell corporate bonds to buy govern-ment securities.
(3) Sell both corporate bonds and blue-chip stocks to buy government securities
(4) His action cannot be predicted

141. In the middle of the year, the fund is invested equally in corporate bonds, blue-chip stocks and government securities. Due to some rumours about the credibility of the fund, investors have started redemption and withdrawals resulting in cash shortage for the fund.

Mehta might do any one of the following EXCEPT

(1) Sell two times more corporate bonds than blue-chip stocks
(2) Sell only government securities and blue-chip stocks.
(3) Sell only corporate bonds and blue-chip stocks.
(4) Sell only government securities and corporate bonds.

Directions (Qs. 142 to 144): Farmer Batuk Singh has a larger square field divided into nine smaller squares, all equal, arranged in three rows of three fields each. One side of the field runs exactly east-west. The middle square must be planted with rice because it is wet. The wheat and barley should be contiguous so that they can be harvested all at once by the mechanical harvester.

Two of the fields should be planted with soyabeans. The north-westernmost field should be planted with peanuts and the southern third of the field is suitable only for vegetables.

Questions 142 to 144 refer to the following squares :

(1) The square immediately north of the rice.
(2) The square immediately east of the rice.
(3) The square immediately west of the rice.
(4) The square immediately north-east of the rice.

142. Which square cannot be planted with soyabeans?
143. Which square cannot be planted with wheat?
144. If Batuk Singh decides to plant the wheat next to the peanuts, in which square will the barley be?

Directions (Qs. 145 to 148) : In a defence message, 'GET AWAY, FIRE BACK-WARDS, MOVE SLOW is coded as 'BEN CDCI, QHOEPCTL DCOXU, ZMWE VFMD' Based on this coding scheme, spot the codes for the words given in Questions 145 to 148 :

145. GREAT

(1) BOENC
(2) BOEQN
(3) BOECN
(4) BOEHC

146. REWARD

(1) OEDNXE
(2) OTDCOX
(3) OEDCOX
(4) OEDCOU

147. DEADLY

(1) XECXEI
(2) XENXFI
(3) XECXEI
(4) XECXFI

148. OVER

(1) MWOE
(2) MWZO
(3) MWEO
(4) MWED

Directions (Qs. 149 to 152) : A goldsmith has five gold rings, each having a different weight. They are labelled as D, E, F, G and H. Their peculiarities are given in the following 5 statements:

Statement 1 : Ring D weighs twice as much as ring E.
Statement 2 : Ring E weighs four and a half times as much as ring F.
Statement 3 : Ring F weighs half as much as ring G.
Statement 4 : Ring G weighs half as much as ring H.
Statement 5 : Ring H weighs less than ring D but more than ring F.

149. If these rings are sold according to their weights, which ring will fetch the highest value in rupees?

(1) D
(2) G
(3) F
(4) H

150. Ring H is heavier to which of the following two rings?

(1) GE
(2) GF
(3) DF
(4) DE

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

(1) D
(2) E
(3) F
(4) G

152. Which of the following represents the descending order of the weights of the rings ?

(1) D, E, H, G and F
(2) F, D, G, E and H
(3) H, F, G, D and E
(4) E, G, H, D and F

Directions (Qs. 153 to 159): A management institute organizes six once-a-month lecture series for young entrepreneurs as per the following schedule, with no dates conflicting :

Marketing Management — August through January
Economics — April through October
Business Law — January through September
Financial Management — March through June
Accounting — October through April
Personnel Management — October through December

153. During which month are the fewest lectures given?

(1) January
(2) February
(3) June
(4) September

154. Which is the largest number of lectures that can be attended in a single month ?

(1) 7
(2) 6
(3) 5
(4) 4

155. Which two series taken together fill the year without overlap?

(1) Marketing and Financial Management
(2) Personnel Management and Economics
(3) Business Law and Personnel Management
(4) Business Law and Accounting

156. During how many months of the year must a student attend to hear all the lectures on Marketing, Economics and Financial Management?

(1) 11
(2) 10
(3) 9
(4) 8

157. How many lecture series last more than 6 months?

(1) 1
(2) 2
(3) 3
(4) 4

158. How many different series can be attended in September, October and November?

(1) 2
(2) 3
(3) 4
(4) 5

159. How many different lectures can be attended in January, February and March?

(1) 12
(2) 10
(3) 8
(4) 6

160. If SMOOTH is coded as 135579, ROUGH as 975531 and HARD as 9498, then SOFT will be coded as

(1) 1527
(2) 1347
(3) 4998
(4) 8949

Answers:

121 (3)	142 (4)
122 (4)	143 (3)
123 (3)	144 (4)
124 (4)	145 (3)
125 (3)	146 (3)
126 (2)	147 (4)
127 (1)	148 (3)
128 (1)	149 (1)
129 (2)	150 (2)
130 (3)	151 (3)
131 (1)	152 (1)
132 (3)	153 (2)
133 (2)	154 (4)
134 (3)	155 (3)
135 (4)	156 (1)
136 (None)	157 (3)
137 (4)	158 (4)
138 (1)	159 (3)
139 (2)	160 (1)
140 (4)	
141 (1)	