(III) STATISTICAL ABILITY :

141. If m is the arithmetic mean of $a_1, a_2, ... a_n$ then the arithmetic mean of $\alpha a_1 + \beta, \alpha a_2 + \beta, ... \alpha a_n + \beta$ is ( )

1) m   2) $m + \beta$
3) $\alpha m + \beta$ 4) αm

142. The mean deviation of the observations 1, 3, 7, 14, 5 about their median is ( )

1) 3   2) 3.6
3) 4   4) 4.2

143. The mode of the observations : ( )
9, 9, 8, 7, 6, 3, 7, 2, 7, 6, 9, 7, 8, 7 is

1) 9   2) 8
3) 7   4) 6

144. If the standard deviation of $x_1, x_2,...., x_n$ is σ then the standard deviation of $y_1, y_2,.... y_n$, where $y_j = 3x_j + 5$ for $j = 1, 2,.....n$ is ( )

1) $\sqrt{3}\sigma$ 2) 3σ
3) $3\sigma + 5$ 4) $\sqrt{3}\sigma + 5$

145. The mean and variance of the observations 6, 7, a, b, 10, 12, 12, 13 are 9 and 9.25 respectively. Then the ordered pair (a, b) =

1) (7, 3)   2) (8, 6)   ( )
3) (8, 4)   4) (9, 5)

146. For observations $x_1, x_2, ..., x_n$ the sum

$$\sum_{j=1}^{n} \left| x_j - C \right|$$

is minimum if C is the .... of the observations.

1) mean   2) median   ( )
3) mode   4) variance

147. If three unbiased coins are tossed simultaneously then the probability of getting exactly two heads is ( )

1) $\frac{1}{8}$ 2) $\frac{2}{8}$
3) $\frac{3}{8}$ 4) $\frac{4}{8}$

148. A person gets as many rupees as the number he gets when an unbiased 6 faced die is thrown. If two such dice are thrown the probability of getting Rs. 10 is ( )

1) $\frac{1}{12}$ 2) $\frac{5}{12}$
3) $\frac{13}{36}$ 4) $\frac{19}{36}$

149. A number n is chosen at random from $\{1, 2, ..., 10\}$. The probability that n satisfies the equation $(x-3)(x-6)(x-7)(x-11) = 0$ is

1) $\frac{2}{5}$ 2) $\frac{3}{5}$ ( )
3) $\frac{3}{10}$ 4) $\frac{7}{10}$

150. Let E be the set of all integers with 1 in their units place. The probability that a number n chosen from, $\{2, 3, 4,........, 50\}$ is an element of E is ( )

1) $\frac{5}{49}$ 2) $\frac{4}{49}$
3) $\frac{3}{49}$ 4) $\frac{2}{49}$

SECTION- C COMMUNICATION ABILITY

Questions : 50| |Marks : 50

PART - 1

Choose the correct meaning for the word :

151. Epitome ( )
1) Quintessence   2) Rebuttal
3) Harangue   4) Depredation

152. Niggardly ( )
1) Black   2) Generous
3) Miserably   4) Miserly

153. Abnegation ( )
1) Self praise   2) Self criticism
3) Self sacrifice   4) Self denial

154. Surreptitious ( )
1) Abstract   2) Secret
3) Secretive   4) Mysterious

155. Serendipity ( )
1) Peace   2) Luck
3) Old   4) Fate

156. Hiatus ( )
1) Tall   2) Creeper
3) Gap   4) Obscure

Fill in the blank choosing the correct word :

157. A .... of surgeons arrived at the scene of the disaster. ( )
1) team   2) crew
3) company   4) cast

158. The bank robbers .... him at gunpoint to open the safe. (   )
1) helped   2) persuaded
3) beat   4) forced

159. A committee has been set up to ..... on the problem of terrorism in this region. (   )
1) investigate   2) inquire
3) research   4) report

160. His .... to my failures were not in good taste.
1) illusions   2) accolades   (   )
3) aversion   4) allusions

PART - 2

Choose the correct answer :

161. Franchise is (   )
1) a bond   2) a letter of intent
3) an agreement enabling a third party to sell
4) a business deal

162. WiFi is the abbreviation for (   )
1) wireless identity for internet
2) world wide internet for fast information
3) world wide imaging for intelligence
4) wireless fidelity

163. Copy-writer is a person who (   )
1) conceives the ideas and writes the advertisement
2) transcribes the product design
3) assists public relation works
4) represents the management of a company at a news conference

164. The receipt given by an air carrier for shipment of goods is called (   )
1) Air Delivery Note
2) Air Cargo Acknowledgement
3) Airway Bill   4) Air Parcel Receipt

165. The Chamber of Commerce for the IT Software and Services industry in India is
1) NASSCOM   2) CII   (   )
3) NIC   4) NSE

166. A general rise in prices measured against a standard level of purchasing power is referred to as
1) consumer price index   (   )
2) cost of living index
3) inflation index   4) GDP

167. A text file contains (   )
1) alphabetical and numerical data
2) a spread sheet   3) only alphabetical data
4) only numerical data

168. When a contract becomes null and void, it means that the contract is (   )
1) illegal   2) not binding
3) immoral   4) ripe for implementation

169. A web tool that consists of a searchable data base of websites is called (   )
1) Google   2) Web Directory
3) Search Engine   4) World Wide Web

170. A device with volatile memory is (   )
1) RAM   2) ROM
3) Magnetic Disk   4) Compact Disk

PART - 3

Choose the correct answer :

171. "I hardly speak to my boss." In this sentence, the speaker (   )
1) often speaks to her boss
2) speaks to her boss rudely
3) rarely speaks to her boss
4) hates to speak to her boss

172. "I resent his tongue-in-cheek comments." The underlined phrase means (   )
1) harsh   2) sarcastic
3) vulgar   4) venornous

173. "If I were you, I wouldn't take such a risk." The speaker is (   )
1) giving advice   2) warning himself
3) giving a command
4) saying he wants to become like the listener

174. "The lecture would have been completed by now." The active form of this sentence is
1) They will complete the lecture now (   )
2) They would complete the lecture by now
3) They would have completed the lecture by now
4) They would be completing the lecture by now

175. "Had he come, he would have enjoyed the show." The sentence means that (   )
1) he has come   2) he had come
3) he will come   4) he did not come

176. Man : "Could I give you a hand moving that bed?"

Woman : "That would be nice." What does the woman mean ? ( )

1) She won't give him a hand

2) She'd like him to help her

3) The bed is too heavy to move around alone

4) It would be nice if someone could help with the move

177. All political parties are <u>tarred with the same brush</u>. The underlined expression means : ( )

1) treated equally

2) possess the same defects

3) follow the same principles

4) profess the same policies

Fill in the blank with the appropriate phrase/verb/ preposition :

178. You must apologise _____ what you said.

1) for   2) about   ( )

3) on   4) in

179. Globalisation has been _____ favourably on our economy. ( )

1) impacting   2) improving

3) interpolating   4) intervening

180. I shall not be late for dinner _____ ( )

1) unless the train will be late

2) unless the train will not be late

3) unless the train is late

4) if the train is late

181. I _____ my uncle as soon as he arrived in India.

1) called on   2) called with   ( )

3) called out   4) called at

182. He takes no interest ____ polities. ( )

1) at   2) over

3) in   4) for

183. However you may try, you cannot _____ to your position for long. ( )

1) hold out   2) hold up

3) hold on   4) hold over

184. Those shoes don't _____ that dress. ( )

1) go on   2) go with

3) go for   4) go by

185. He was acquitted _____ the charge of sedition.

1) for   2) upon

3) of   4) on   ( )

PART - 4

Read the following passage and answer questions 186 - 190 :

When we speak of the freedom of the media, we usually mean freedom in a very technical and restricted sense, we feel that if we are free from government direction or censorship, the media have their freedom. In this sense our TV channels, and especially our press, is relatively free. They can attack the policies of the government, expose scandals or comment on the political careers of ministers. Public opinion also is supposed to restrict the function of the media. Generally speaking the media works to secure and sustain that central doctrine of democracy as we understand it........., that the state is not the master but servant of the people, so people's interests play a great role defining freedom of the media! But is it really true ? Our media is free only in this restricted sense.The real restrictions come from companies from whom it gets money for advertising their products and the wealth of the person or company that owns the channel or the paper. If the channel dares to support a public policy like "Ban excessive use of cars and use public transport (or) "Ban the use of air-conditioners or refrigerators because they contribute to the pollution companies will refuse to support such policies by stopping their advertisements.

186. What is the popular perception of "freedom of the media" ? ( )

1) lack of state intervention

2) lack of support from companies

3) censorship of the government

4) restrictions imposed by rules

187. Why does the writer think that our media enjoys freedom ? ( )

1) It gets support from the government

2) Government does not impose restrictions

3) It criticises political leaders

4) It can support the policies that are favoured

188. What is the function of the government according to the writer ? ( )

1) to protect the people

2) to serve the people

3) to care for the people

4) to entertain the people

189. Who really controls the media ? ( )

1) public opinion and pressure

2) democratic structure of the society

3) government policies

4) owners of business houses

190. Which function of advertisements is referred to in the text ? ( )

1) resource generation   2) increasing sales

3) entertainment value.   4) public education

Read the following passage and answer questions 191 - 195 :

Everyone knows the 'touch-me-not' plant which folds up its leaves when touched. How the plant is able to do this has been something of a puzzle, and it is only in recent years that a possible answer has been found. At the lower end of each leaf is a tiny swelling called the pulvinus. Scientists have shown that the pulvinus acts as the 'brain' or control center of the leaf. The folding - up of the leaf is controlled by the pulvinus. Exactly how this happens is still not very clear. It has been discovered, through some experiments, that when a mild electric shock is given to the pulvinus, it contracts. The process by which the pulvinus controls the folding of the leaf may not be very different, therefore, from that by which animals are able to control their muscles. It is well known that animal cells - specially the cells in the nerves and muscles - contain a small electrical charge. It is this charge which causes the contraction of muscles. When a leaf is touched there seems to be a change in the pressure of the liquid inside its cells. This change of pressure, it is believed, reaches the pulvinus and turns on some kind of electrical switch. As a result, an electrical charge is produced which makes the pulvinus contract, causing the leaf to fold up.

191. This passage is about ( )
   1) how the touch - me - not plant grows into a tree
   2) why the touch - me - not plant folds up its leaves when touched.
   3) how the touch - me - not plant reproduces
   4) how the touch - me - not plant attracts animals.

192. **When does the pulvinus contract?** ( )
   1) when a mild electric shock is given
   2) when it rains
   3) when air pressure increases
   4) when a leaf is separated from the plant

193. **What causes contraction of muscles in animals?** ( )
   1) locomotion   2) nerves
   3) respiration   4) electric charge

194. **Where is the pulvinus located on the touch - me -not plant?** ( )
   1) on the surface of the leaf
   2) on the lower end of the leaf
   3) on the stalk   4) on the stem

195. **What happens when the leaf of a touch - me - not plant is touched?** ( )
   1) a change occurs in the pressure of the liquid inside the cells.
   2) the colour of the leaf changes
   3) a change occurs in the size of the leaf
   4) the leaf withers away

Read the following passage and answer questions 196 - 200 :

A beggar was sitting at a railway station with a bowl full of pencils. A young executive passed by and dropped a dollar in the bowl. He then boarded the train. Before the doors closed, something came to his mind and he went back to the beggar, grabbed a bunch of pencils, and said, "They are priced right, After all you are a business person and so am I", and he left. Six months later, the executive attended a party. The beggar was also there in a suit and tie. The beggar recognised the executive, went upto him and siad, "You probably don't recognise me but I remember you?" He then narrated the incident that happened six months before. The executive said, "Now that you have reminded me, I do recall that you were begging. What are you doing in your suit and tie?" The beggar replied", you probably don't know what you did for me that day. You were the first person in my life who gave me back my dignity. You grabbed the bunch of pencils and said, "They are priced right. After all, you are a business person and so am I." After you left, I thought to myself, what am I doing here? Why am I begging? I decided to do something constructive with my life. I packed my bag, started working and here I am. I just want to thank you for giving me back my dignity, That incident changed my life."

196. **Where did the executive meet the beggar for the first time?** ( )
   1) aboard the train   2) at the railway station
   3) at a party   4) on the street

197. **What prompted the executive to grab the bunch of pencils from the beggar?** ( )
   1) he needed a pencil 2) he was a business man
   3) the train was leaving
   4) he wanted to treat the beggar differently

198. **When the executive uttered, "What are you doing in your suit and tie?" he was showing his** ( )
   1) annoyance   2) disgust
   3) sarcasm   4) astonishment

199. **What brought about the change in the life of the beggar?** ( )
   1) the dollar received from the executive
   2) restoration of his dignity by the executive
   3) the train journey   4) introspection

200. **What did the beggar decide to do to transform his life?** ( )
   1) Constructive work 2) Travel
   3) Attend parties   4) Dress well

KEY

1) 4	2) 2	3) 3	4) 2	5) 4	6) 3	7) 3	8) 2	9) 3	10) 3
11) 1	12) 4	13) 2	14) 3	15) 1	16) 4	17) 3	18) 4	19) 1	20) 3
21) 4	22) 1	23) 3	24) 2	25) 1	26) 4	27) 2	28) 4	29) 2	30) 3
31) 1	32) 4	33) 2	34) 3	35) 4	36) 1	37) 3	38) 4	39) 2	40) 3
41) 4	42) 1	43) 3	44) 4	45) 2	46) 3	47) 4	48) 1	49) 2	50) 4
51) 3	52) 2	53) 1	54) 2	55) 4	56) 4	57) 2	58) 3	59) 1	60) 4
61) 1	62) 2	63) 2	64) 3	65) 1	66) 2	67) 3	68) 4	69) 1	70) 2
71) 3	72) 4	73) 3	74) 2	75) 4	76) 1	77) 2	78) 4	79) 1.	80) 3
81) 3	82) 2	83) 3	84) 1	85) 3	86) 1	87) 4	88) 2	89) 2	90) 4
91) 1	92) 4	93) 1	94) 2	95) 2	96) 4	97) 3	98) 1	99) –	100) 1
101) 3	102) 3	103) 1	104) 4	105) 3	106) 4	107) 1	108) 2	109) 4	110) 1
111) 1	112) 3	113) 3	114) 2	115) 2	116) 4	117) 4	118) 1	119) 4	120) 3
121) 1	122) 3	123) 2	124) 1	125) 4	126) 3	127) 2	128) 4	129) –	130) 1
131) 2	132) 2	133) 3	134) 2	135) 3	136) 3	137) 3	138) 2	139) 1	140) 2
141) 3	142) –	143) 3	144) 2	145) 3	146) 2	147) 3	148) 1	149) 3	150) 2
151) 1	152) 4	153) 4	154) 3	155) 2	156) 3	157) 1	158) 4	159) 4	160) 4
161) 3	162) 4	163) 1	164) 3	165) 1	166) 1	167) 1	168) 2	169) 3	170) 1
171) 3	172) 2	173) 1	174) 3	175) 4	176) 3	177) 2	178) 1	179) 1	180) 3
181) 1	182) 3	183) 3	184) 2	185) 3	186) 1	187) 2	188) 2	189) 4	190) 1
191) 2	192) 1	193) 4	194) 2	195) 1	196) 2	197) 4	198) 4	199) 2	200) 1