

## TCS Paper Aptitude - Placement Paper Set - 2

63. A moves 3 kms east from his starting point . He then travels 5 kms north. From that point he moves 8 kms to the east.How far is A from his starting point?

Ans. 13 kms

66. The cost of one pencil, two pens and four erasers is Rs.22 while the cost of five pencils, four pens and two erasers is Rs.32.How much will three pencils, three pens and three erasers cost?

Ans. 27

76. if the word 'ddossmz' is changed to 'central' then what will be the change for 'rtjbl' ?  
Ans:quick

77. what is the largest prime number in 8 digit number?

78. the word unimpressive was given.they asked us to do change 1st & 2nd,3rd & 4th,so on.then they asked what will be 10th letter from right?  
Ans:m

79. the plane question was asked.it took off from 7 degree 53' 6.1" and landed at 8 degree 6' 43.5".it takes 12 hours to travel between these points.then what will be local time at destination ?[just follow previous ques paper the problem was same

80.  $g[0]=1, g[1]=-1, g[n]=2*g[n-1]-3*g[n-2]$  then calculate  $g[4]=?$

81. The series was asked : 5,6,7,8,10,11,14,..?

82. They asked the temperature problem.it was same as previous papers.the ratio was  $-t^2/6+4t+12$ .

83. The ques on a man,a woman and a boy finish work together in 6 days.man takes 10 days,woman takes 24 days then how much boy will take?  
Ans:40 days

84. The matrix of a(7,9) was given.the address of the first byte of a(1,1)=1258.it takes 4 bytes to store the nuymber.then calculate the address of the last byte of a(5,8)

85. The program requires  $4000(n)^{1/2}$  [ie square root of n].if size of program was increased by 1% then calculate the percentage change in size of program.

86.  $\text{Modulo}(373,7)+\text{round}(5.8)+\text{truncat}(7.2)-\text{round}(3.4) = ?$   
Ans : 12

87. (imp) The bucket size is 10KB.it takes 0.0001 KB/milsec to fill bucket.the bucket takes 100 or 1000 milsec to reach to destination.it takes 100 milsec to pass acknowledgement from dest to source.so calculate how much time will it take to pass N KB ,write formula.

88. The graph was given.the x and y axes were there.the line is intersecting them.the points of intersection were  $y=3, x=0$  and  $x=-2, y=0$ .write the equation of line.

89. The decimal number was given.it was converted to other system.they asked to identify the system.i.e. octal,hexadecimal.

93. Low temperature at the night in a city is  $1/3$  more than  $1/2$  high as higher temperature in a day. Sum of the low temperature and highest temp. is 100 degrees. Then what is the low temp?

Sol: 40 deg.

94. Person, who decided to go to weekend trip should not exceed 8 hours driving in a day. Average speed of forward journey is 40 m/h. Due to traffic in Sundays, the return journey average speed is 30 m/h. How far he can selecta Picnic spot?

a) 120 miles b) Between 120 and 140 miles c) 160 miles

Answer: 120 miles

95. A salesperson multiplied a number and got the answer 3, instead of that number divided by 3.What is the answer he actually has to get?

Sol:  $(1/3) * 1 * 3 = 3$ , so number = 1 Divided by 3

Answer: 1/3.

96. A ship started from port and moving with I miles per hour and another ship started from L and moving with H miles per hour. At which place these two ships meet?

|----|----|----|----|----|----|

port G H I J K L

Sol: Answer is between I and J and close to J or  $(L*I*H)/(H+I)$

97. A building with height D shadow up to G. A neighbor building with what height shadows C feet.

|----|----|----|----|----|----|

A B C D E F G H

99.A bus started from bus stand at 8.00am, and after 30 minutes staying at destination, it returned back to the bus stand. The destination is 27 miles from the bus stand. The speed of the bus is 18mph. In return journey bus travels with 50% fast speed. At what time it returns to the bus stand?

Sol: 11.00am

100.In a mixture, R is 2 parts S is 1 part. In order to make S to 25% of the mixture, how much r is to be added?

Sol: One Part

103. Two trees are there. One grows at  $3/5$  of the other in 4 years, total growth of trees is 8 ft. what growth will smaller tree will have in 2 years

Sol: (< 2 ft)

106. Box of 150 packets consists of 1kg packets and 2kg packets. Total weight of box is 264kg. How many 2kg packets are there

a) 96 b) 67 c) 100 d) 114

Sol:d

107. Which is more economical of the following

a) 2kg -- 30/- b) 8kg -- 160/- c) 5kg -- 80/-

108. Satish earns 240 weekly.12% of big amount + earning weekly = 540.What is the big amount?

Ans: 2500

109. Julia is twice older than qurban. If Julia was 4 years younger, qurban was 3 years older their diff. between their ages is 12 years. What is the sum of their ages?

Ans: 57

110.  $|x-a| = a-x$  solve.

Ans)  $x <= a$

111. There is a six-letter word UGANDA. How many ways u can arrange the letters in the word in such a way that both A's are together.

Ans) 120

112.If two cards are taken one after another without replacing from a pack of cards. What will be the probability for 2 cards to be drawn?

Ans)  $1/13 \times 1/17113.51 \times 53x..... \times 59$

Ans)  $99! \times 25! / 2 \text{ power } 24 \times 49! \times 5!$

114.The ratio of boys to girls is 6:4.60% of the boys and 40% of girls take lunch in the canteen.What % of class takes lunch? Ans) 52%

115. In a two-dimensional array, X (9, 7), with each element occupying 4 bytes of memory, with the address of the first element X (1, 1) is 3000; find the address of X (8, 5).

116. In the word ORGANISATIONAL, if the first and second, third and forth, forth and fifth, fifth and sixth words are interchanged up to the last letter, what would be the tenth letter from right?

117. What is the largest prime number that can be stored in an 8-bit memory?

118. Select the odd one out.....a. Java b. Lisp c. Smalltalk d. Eiffel.

119. Select the odd one out a. SMTP b. WAP c. SAP d. ARP

120. Select the odd one out a. Oracle b. Linux c. Ingress d. DB2

121. Select the odd one out a. WAP b. HTTP c. BAAN d. ARP

122. Select the odd one out a. LINUX b. UNIX c. SOLARIS d. SQL SEVER

123. Select the odd one out a. SQL b. DB2 c. SYBASE d. HTTP

124. The size of a program is N. And the memory occupied by the program is given by  $M = \text{square root of } 100N$ . If the size of the program is increased by 1% then how much memory now occupied?

125. A man, a woman, and a child can do a piece of work in 6 days. Man only can do it in 24 days. Woman can do it in 16 days and in how many days child can do the same work? 12. In which of the system, decimal number 184 is equal to 1234?

126. Find the value of the 678 to the base-7.

127. Number of faces, vertices and edges of a cube

128. Complete the series 2, 7, 24, 77, \_\_

129. Find the value of  $@@+25-++@16$ , where @ denotes square and + denotes square root.

130. Find the result of the following expression if, M denotes modulus operation, R denotes round-off, T denotes truncation:  $M(373,5)+R(3.4)+T(7.7)+R(5.8)$

131. IF TAFJHH is coded as RBEKGI then RBDJK can be coded as?

132.  $G(0)=-1, G(1)=1, G(N)=G(N-1) - G(N-2), G(5)=?$

133. What is the max possible 3 digit prime number?

134.A power unit is there by the bank of the river of 750 meters width. A cable is made from power unit to power plant opposite to that of the river and 1500mts away from the power unit.The cost of the cable below water is Rs.15/- per meter and cost of cable on the bank is Rs.12/-per meter. Find the total of laying the cable.

135. The size of a program is N. And the memory occupied by the program is given by  $M = \text{square root of } 100N$ . If the size of the program is increased by 1% then how much memory now occupied?

136. In Madras, temperature at noon varies according to  $-t^2/2 + 8t + 3$ , where t is elapsed time. Find how much temperature more or less in 4pm to 9pm.

137. The size of the bucket is N kb. The bucket fills at the rate of 0.1 kb per millisecond. A programmer sends a program to receiver. There it waits for 10 milliseconds. And response will be back to programmer in 20 milliseconds. How much time the program takes to get a response back to the programmer, after it is sent?

138. A man, a woman, and a child can do a piece of work in 6 days. Man only can do it in 24 days. Woman can do it in 16 days and in how many days child can do the same work?

139. If the vertex (5,7) is placed in the memory. First vertex (1,1) `s address is 1245 and then address of (5,7) is

140. Which of the following are orthogonal pairs?

a.  $3i+2j$  b.  $i+j$  c.  $2i-3j$  d.  $-7i+j$

141. If VXUPLVH is written as SURMISE, what is SHDVD?

142. If A, B and C are the mechanisms used separately to reduce the wastage of fuel by 30%, 20% and 10%.What will be the fuel economy if they were used combined.

143. What is the power of 2?

a. 2068 b.2048 c.2668

144. Complete the series. 3, 8, --, 24, --, 48, 63.

145. Complete the series. 4, -5, 11, -14, 22, --

146. A, B and C are 8 bit no's. They are as follows:

A -> 1 1 0 1 1 0 1 1

B -> 0 1 1 1 0 1 0

C -> 0 1 1 0 1 1 0 1

Find ((A-B) u C)=?

147. A Flight takes off at 2 A.M from northeast direction and travels for 11 hours to reach the destination, which is in northwest direction. Given the latitude and longitude of source and destination. Find the local time of destination when the flight reaches there?

148. A can copy 50 papers in 10 hours while both A & B can copy 70 papers in 10 hours. Then for how many hours required for B to copy 26 papers?

149. A is twice efficient than B. A and B can both work together to complete a work in 7 days. Then find in how many days, A alone can complete the work?

150. A finish the work in 10 days. B is 60% efficient than A. So how many days do B takes to finish the work?

151. A finishes the work in 10 days & B in 8 days individually. If A works for only 6 days then how many days should B work to complete A's work?

Ans: 3.2 days

152. Given the length of the 3 sides of a triangle. Find the one that is impossible? (HINT: sum of smaller 2 sides is greater than the other one, which is larger)

153. Find the singularity matrix from a given set of matrices?

154. A 2D array is declared as A[9,7] and each element requires 2 byte. If A [1,1] is stored in 3000. Find the memory of A[8,5]?

155. Sum of slopes of 2 perpendicular st.lines is given. Find the pair of lines from the given set of options, which satisfy the above condition?

156. (a)  $2+3i$  (b) $1+i$  (c)  $3-2i$  (d)  $1-7i$ . Find which of the above is orthogonal.

157. (Momentum\*Velocity)/(Acceleration \* distance). Find units.

158. The number 362 in decimal System is given by (1362) x in the X System of numbers find the value of X

a) 5 b) 6 c) 7 d) 8 e) 9

159. Given \$ means Tripling and % means change of sign then find the value of  $%%\%6-\%\$6$

160. My flight takes of at 2am from a place at 18N 10E and landed 10 Hrs later at a place with coordinates 36N70W. What is the local time when my plane landed?

a)6:00 am b) 6:40am c) 7:40 d) 7:00 e) 8:00

161. Find the highest prime number that can be stored in an 8 bit Computer?

162. Which of the following set of numbers has the highest Standard deviation?

a)1,0,1,0,1,0 b) -1, -1, -1, -1, -1, -1

c)1,1,1,1,1,1 d) 1,1,0, -1,0, -1

163. 3 angles or 3 sides r given.Which will form a triangle?

164 units of basic quantities :

1. (energy \* time \* time )/(mass \* dist) = distance

2. (momentum \* velocity)/(force \* time) = velocity

165. & is for doubling the value % is for change of sign then what is the value

5-&%&5 Ans-30 (Check)

166. 58,27,12,x,2,1. Find x.

167. R-rounding off, M-modulus, T-truncate

$M(893,10)+r( )+t( )$  is asked

168. vertices edges and surfaces of a cube Ans-8,12,6

169. Sums on Recursive functions

170. Questions on General computer awareness

171. Pick the odd one.....

1.http 2.arp 3.snmp 4.sap Ans-sap

1.linux 2.windows NT 3.sql server 4.Unix Ans-Sql server

Another.....ans-Smtp

Ans-MVS

172. Which of the following is a singular matrix. (Determinant must be zero)

173. Aeroplane is flying at a particular angle and latitude,after some time another latitude is given..(8 hrs later), u r asked to find the local time of the place.

174. a series of letters are given how many Ws r followed by F and preceded by T.

175. 7,9,13,\_\_27,37. Ans-19

176. SURFW Code is translated as SHEET.....these kinda ques r there....

177. 194 base 10 = \_\_\_ base 5 (1234)

178. Largest prime no. in a 6 bit,8 bit (Ans 127),9 bit microprocessor

179. Venn Diagram kinda ques. Some know English, some French,some German.....how many know two languages....

180. Bar Diagram, Pie Chart (similar to Data interpretation)

181. Code Interchanging, A word is given.... Letters are reversed..u r asked to find the nth letter from right or left....

Eg. DESTABILIZATION Ans-T

182. Sums on logarithms, e power x curves.

183.  $n=68 \times 12 \times 51$ . Which of the follg is not an integer Ans- n/122

184. Which is a/not a power of 2 or 3.Power of 4

Ans-4096

185. series: 2, 7, 24,77, ----- ans: 248

186. code: oenir: brave cyrmfr :----- ans:please

187. 1st and 2nd letters of aparliamentarian were interchanged.similarly 3rd and 4th, then 5th and 6 th .So on continued.what would be the 14tjh letter from right.

188. (466)decimal= what is the number in base 7?

189. largesrt prime that can be stored in 8 bit computer. ans127

190. if  $n=68*12*51$ , which one is not a integer

1.n/102, 2.n/72, 3. n/153, 4.n/136 5. n/244

191. which one is the power of 3== 6245,6762,6074,6561,6178

192. odd out----1. mvs,2. windowsnt, 3. sybase 4. linux.

193. odd out----1.java,2. smalltalk 3. eiffel 4. lisp

194. In a triangle which one is not possible.sides are (5 ,5 ,5 ), (5 ,4 ,5 ), (4 ,4 ,9 ), (3 ,4 ,5 ).

195. No. of vertices,edges, faces are given.which one among these best suits for the solid planner cube. 12, 8, 6 6 ,8 ,12 4 , 8, 12 8 ,12, 6

196. Which one among have higher deviation:1. 7,0,-7, 7,0,-7 2. -7,-7,-7,-7,-7 3. 7,-7,-7,-7,-7 4. 7,7,7,7,7

197. a & b can do a work in 14 days.if a does twice as much as work as b in a given time.find how long a alone would take to do the work.

198. Which one among is a singular matrix. 14 6 , -373 223 , 1 0 , 10 12

4 3 , 1865 -1115 , 1 2 , 3 4

199. If &=doubling and % means sign change then what is the output

&%&(5) - %&%(5)

200. Match the box

a.scooter--- Automobile a.super set of

b.Oxygen--- Water b.not a type of

c.Shopfloorstaff----Filters c.a type of

d. Bug--- Reptile d.part of

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