

JobDuniya

Placement Papers: Aditi Quantitative Aptitude

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1. In the word ORGANISATION if we exchange first with the second, second with the third, third with fourth and so on _____ till last then what will be the 10 letter from right?

- a. G
- b. N
- c. A
- d. R

Ans: A

2. What is the largest prime no that will fit in 6 bit memory?

- a. 65
- b. 61
- c. 67
- d. 63

Ans: 61

3. 2 student get 3 and 3.5 in their class exam And 1.2 and 1.45 in final exam respectively. What might be the class marks of 3rd student who have got 0 marks in final exam?

- a. 0.3
- b. 0.5
- c. 0.25
- d. 0.1

ans: 0.25

4. In two dimensional array X (7,9) each element occupies 2 bytes of memory. If the address of first element X (1,1) is 1258 then what will be the address of the element X (5,8) ?

- a. 1460
- b. 1365
- c. 1356

d. 1370 Ans: 1365 Approach: $1258 + (4 * 9 * 2) + (8 * 2)$

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

i. 12,6, 8

ii. 6,8, 12

iii. 4,6, 8

iv. 8,12, 6

Ans: b

f. Which of the following highest Standard deviation

i. 7, 0, 7,0, 7,0

ii. 7, 7, 7,7, 7,7

iii. -7, 7, 7,7, 7,7

iv. -7, 7, 7,7, 7,7

Ans: d

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

i. -2

ii. 3

iii. 1

iv. 0

Ans: a

h. A power unit is there by the bank of the river of 900 mtr width. a cable is made from power unit to power a plant opposite to that of the river and 3000 mtr away from the power unit. The cost of the cable bellows water Rs5/mtr and cost of cable on the bank is ₹ 4/mtr. Find the pt where the cable cut through the river.

i. 2800

ii. 3000

iii. 2100

iv. 3900

Ans: c

i. In madras, temperature at noon varies according to $t^2 + 4t + 12$, where t is elapsed time. Find how much tem more or less in 6 pm to 9 pm. didn't get the

correct ans _____ Approach: Substitute the given values ... $(-6^2 + 4 * 6 + 12) .$
 $- (-9^2 + 4 * 9 + 12)$

j. 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 millisecond. How many much time the program takes to get a response back to programmer, after it is sent? Ans: 30 millisecond

k. Which of the following are orthogonal pairs

i. $3i + 2j$

ii. $i + j$

iii. $2i - 3j$

iv. $7i + j$

Ans: a&c

l. Which of the following do not form triangle?

i. 5,4, 7

ii. 3,4, 7

iii. 3,4, 5

iv. 1,8, 5

Ans: d

m. If A, B, C are the mechanisms used separately to reduce the wastage of fuel by 30 % , 40 % , 10 % . What will be the fuel economy if they were used combine?

i. 68.4

ii. 62.2

iii. 58

iv. 27

Ans: 62.2

Approach: $(\frac{70}{100}) * (\frac{60}{100}) * (\frac{90}{100}) * 100 = 37.8$

Economy = $(100 - 37.8) = 62.2$

n. My flight takes of at 2pm from a place at 18N 40E and landed 10 Hrs later at a place with coordinates 36N40W. What is the local time when my plane landed?

i. 8.00pm

ii. 6.00pm

iii. 12.00am

iv. 6.40pm

Ans: 6.40 pm

o. The number 384 in decimal system is given by $(1432)_x$ in the X System of numbers find the value of X

i. 5

ii. 6

iii. 7

iv. 8

v. 9

Ans: a

p. WHICH SHAPE WILL BE OBTAINED BY USING THESE VALUES OF X, Y

X Y

0 0.00001

10 1.02

100 1.72

1000 3.00

9999 4.72

Ans: $Y = \log_{10}(X)$

Approach: Take the Diff and Find Out

1. Complete the series. 26,63, _____, 226.
2. A set of angles for a triangle were given and I was asked to find which one does Not represent a triangle.
3. in a two-dimensional array, X (9,7) , with each element Occupying 2 bytes of memory, with the address of the first Element X (1,1) is 3000, find the ending address of X (8,5)
4. 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?
5. Select the odd one out

- a. Oracle
 - b. Linux
 - c. Ingress
 - d. DB2
6. If TAFJHH is coded as RBEKGI then RBDJK can be coded as _____ Fecundity
Dissuade Felicitious Orthodox Genome Ciliated Chary Alacrity Asperity Austere
Enconium Fulminate Testy Misanthrope
 7. The size of a program is N. And the memory occupied by the Program is given by $M = \sqrt{100N}$. If the size of The program is increased by 1 % then how much memory now Occupied?
 8. 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?
 9. Number of faces, vertices and edges of a cube
 10. Find the value of $+ 25 - + + 16$, where @ denotes "double" And + denotes "change of sign"
 11. Find the result of the following expression if, M denotes Modulus operation, R denotes round-off, T denotes truncation: $M(373.5) + R(3.4) + T(7.7) + R(5.4)$
 12. A power unit is there by the bank of the river of 750 Meters width. A cable is made from power unit to power a plant Opposite to that of the river and 1500mts away from the power Unit. The cost of the cable below water is ₹ 15/-per meter And cost of cable on the bank is ₹ 12/-per meter. Find the Total of laying the cable.
 13. Which of the following are orthogonal pairs?
 - a. $3i + 2j$
 - b. $2i + j$
 - c. $2i - 3j$
 - d. $-7i + j$
 14. 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.
 15. 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 1 0 1 0 C 0 1 1 0 1 1 0 1 Find (A-B) U C
 16. A Flight takes off at 2 A. M from northeast direction and travels for 11 hours to reach the destination which is in North West direction. Given the latitude and longitude of source and destination. Find the local time of destination when the flight reaches there?

17. Find the singularity matrix from a given set of matrices?
18. $(\text{Momentum} * \text{Velocity}) / (\text{Acceleration} * \text{distance})$ find units.
19. Which of the following set of numbers has the highest Standard deviation? 7, 0, 7, 0, 7, 0, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 0, 7, 0, 7

20. Match the following:
- a. Brother-sister _____ > a. Part of
 - b. Alsatian-dog _____ > b. Sibling
 - c. Sentence-paragraph _____ > c. Type of
 - d. Car-steering _____ > d. Not a type of

Ans. 1 - b, 2 - c, 3 - a, 4 - d

21. A question from Venn diagram. It was simple.
22. A pie chart was given and a bar chart was given. 4 questions asked from that (22 - 25 questions) .
23. $G(0) = -1, G(1) = 1, G(N) = G(N - 1) + G(N - 2), G(4) = ?$
24. What is the max possible 3 digit prime number?

Try These

A series question. Very simple as 16 19 15? 14 21 (don't remember exactly)

1. what is the largest prime no that is stored in 6 bit pattern.
2. WHICH WILL GIVE GOOD STANDARD DEVIATION
 - a. (7, 0, 7, 0, 7)
 - b. (7, 7, 7, 7, 7)
 - c. (1, 0, 1, 0, 1)
3. WHICH IS NOT A SIDE OF A RECTANGULAR
 - a. (2m, 3m, 4m)
 - b. (3m, 4m, 7m)
 - c. (3m, 5m, 9m)
4. WHICH SHAPE WILL BE OBTAINED BY USING THESE VALUES OF X, Y X Y o

0.00001 10 1.02 100 1.72 1000 3.00 9999 4.72
5. which equation that best suits this curve a line cuts x at-1 when y = 0 and x = 0 when y = 3 and goes upward

6. A man, woman and a boy jointly did a job in 6 days. a man alone finishes in 10 days, a woman alone finish in 24 days. Then how many days the boy can take to finish?
7. An aeroplane starts from a (some latitude is given according to place) at 2 am local time to b (some latitude) . Travelling time is 10 hours. What is the local time of b when it reaches b.
8. A file is transferred from a place to a destination capable of 10 kb. They given some rate of transfer. u have find a equation that best suit this.
9. In a planar cube, the no. Of vertices, no of edges and no of faces are 1.6,6, 6 2.4,8, 12 3.8,12, 6 4_____
10. What is the value of $m(373,7) + r(6.8) - t(3.4) + r(3.4)$ m-modulus r-roundoff t-truncate
11. what is the value of $\# \% \# (5) + \% \% \# (9)$ where %-square root #-square
12. Match the following (don't remember exactly but problem model is important) a b
 - a. sentence, paragraph 1. Type of
 - b. basmati, wheat 2. a part of
 - c. brother, sister 3. Not a type of
 - d. breigal, dog 4. Sibling
13. $g(0) = 1$ $g(1) = -1$ if $g(n) = g(n-1) + g(n-2)$ then what is the value of $g(6)$?
14. A 0 0 0 0 1 1 1 1 B 0 0 1 1 0 0 1 1 C 0 1 0 1 0 1 0 1 then find the decimal equivalent of (a u b) n c.
15. Three schemes in a bank independently gives savings 10 % , 20 % , 25 % . What will be the net saving if they are applied together?
16. which one will be the exact power of 3
 - a. 2768
 - b. 2678
 - c. 2187
 - d. ?
17. A power unit is there by the bank of the river 750 mts. a cable is made from power unit to power a plant opposite to that of the river at 1500mts. The cost of the cable below water is ₹ . 15/-per meter and cost of cable on the bank is ₹ . 12/-per meter. Then where they will cut
18. odd man out 1. Java 2. Smalltalk 3. Lisp 4. Eiffel 5. c ++
19. which is the equation for given line among the 5 1. $2x + 3y = 4$ 2. $x + y = -1$ 3. $y = 2x + 3$

20. In which of the system 384 is equal to 1234? 1. Base 5 2. Base 6 3. Base 7 4. Base 8 5. Base 9
21. The size of a program is n. And the memory occupied by the program is given by $m = \sqrt{100n}$. If the size of the program is increased by 1 % then how much memory now occupied?
22. calculate last address of array element column major a [2,3] , array size a [7,9] , each element occupies 8 bytes. Start address is 3000.
23. $(\text{force} * \text{velocity}) / (\text{mass} * \text{acceleration}) =$
- velocity
 - time
 - acceleration
 - momentum
24. In the word unimpressive if we change 1st & 2nd , 3rd & 4th , so on then will be 10th letter from right? Critical Reasoning
- A six floor building is given. There are 7 or 8 people. Each floor contain two apartments. In each apart there can be at most 2 persons. Some conditions are given as a is two floors above c and his room mate. Etc. We have to determine the person what floors they are staying (reference 12th barron)
 - A and B are working at some place and are also the foreign agents of country C or D. It takes 4 days for docs to reach C and 5 to reach D and a stole a document on 19th and 22nd oct. B stole a document on 21st oct. They both mat for lunch on 20th oct. An agent of one country could not directly sent doc to another country on this based three questions were asked like if a worked for c then in how many days d will receive a document.

Section 2: Quantitative and Logical Reasoning

Most of the questions were from TCS old papers. Only the data get change.

- 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) . ANS: 3212
- 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? ANS: I (ROANISATIONALG)
- What is the largest prime number that can be stored in an 8-bit memory? ANS: 127
- Select the odd one out:
 - Java

- b. Lisp
 - c. Smalltalk
 - d. Eiffel. ANS: LISP
5. Select the odd one out
- a. SMTP
 - b. WAP
 - c. SAP
 - d. ARP ANS: SAP
6. Select the odd one out
- a. Oracle
 - b. Linux
 - c. Ingress
 - d. DB2 ANS: LINUX
7. Select the odd one out
- a. WAP
 - b. HTTP
 - c. BAAN
 - d. ARP ANS: BAAN

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