

(Paper) : TCS Placement Paper Pattern 2006 (Written)

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1. 232 expressed in base-5 is 1412. (Similar Q in different form & number also appeared.)

2. Pick the odd one out:

- A) SMTP
- B) HTTP
- C) ARP
- D) SAP

3. Pick the odd one out:

- A) DB2
- B) ORACLE
- C) WAP
- D) ARP

(I might have interchanged some choices for Qs 2 & 3. Please check.)

4. The following is not a triangle:

- A) (60o, 80o, 20o)
- B) (90o, 60o, 30o)
- C) (54o, 66o, 60o)
- D) (69o, 51o, 60o)

Ans: A (since sum of the angles in a triangle = 180o.)

5. The following is a planar cube (E, V, F):

- A) (12, 8, 6)
- B) (12, 6,
- C) (6, 6,
- D) (6, 8, 6)

E - no. of edges V - no. of vertices F - no. of faces

Ans: A

6. The greatest prime number among the following which can be stored in a 6-bit word computer is:

- A) 61
- B) 63
- C) 65
- D) 67
- E) 69

7. Calc. A-(B C) and represent the resulting 8-bit word in decimal form.

A 0 0 1 1 0 0 1 1
B 0 1 0 1 0 1 0 1
C 0 0 0 0 1 1 1 1

A-(B C)

(I might have interchanged the values of A, B & C but still try this.)

8. Fit a suitable curve with the given data.

x	y
1000	3
?	?
?	?
?	?

A) $y = \log x$ B) $y = \log 10x$ C) $y = -10\log x$ D) $y = ex$

Ans: A

9. How many B's are followed by G's which are not followed by S's in the following series:

B B G M P Q B G S K O B G A S B B G D E F B G S T I

Ans: 4 (Another Q on the same logic was also asked.)

10. $M(373,5) + R(3.4) + T(7.7) - R(5) = \underline{\hspace{2cm}}$
M - Modulo R - Round-off T - Truncate

Ans: $3 + 3 + 7 - 6 = 7$

(In the above, first term means the remainder obtained after dividing 373 by 5.)

11. Match the following:

- A) Female - Girl i) A type of
- B) Bug - Reptile ii) A superset of
- C) Beagle - Dog iii) A part of
- D) Piston - Engine iv) Not a part of

(Another set like this was also asked.)

12. There is a matrix X of order 7 9 whose elements will be filled column-wise. The address of the first element X(1,1) is 1258. Each element occupies 4 bytes of memory. Then the address of the element X(5,8) is 1473.

13. 5 7 11 ? 25

Ans: 17

14. A, B & C can do a piece of work in 8 days. A alone can do it in 12 days and B alone can do it 16 days. Then C alone can do it in ____.

15. The line equation of the following curve is

- A) $y = ex$
- B) $y = \tan x$
- C) $y = \cos x$
- D) $x + y = 0$

Ans: D (For some others, $\tan x$ and $\cos x$ curves were asked.)

16. A & B can do a piece of work in 12 days. A is capable of doing twice the work as B. In how many days A alone can complete the work?

17. If the first/second, third/fourth, fifth/sixth etc.

letters of the word PSYCHIATRIST are interchanged, then the letter which is 8th from right is I .

18. If DCPRY is coded as CBOQX then SPEND can be coded as RODMC.

19. The following is not a triangle:

- A) (2,3,4)
- B) (3,4,5)
- C) (5,5,5)
- D) (1,3,5)

Ans: D (Clue: Sum of any two sides should be greater than the third side.)

20. Temperature in Chennai is measured since 12 noon is given by $(t^2/9) + 4t + 16$. Then the difference in temperatures between 4 pm and 9 pm is _____. (I don't remember the question but can only outline it.)

21. Aeroplane - 12oN 26oE - 20oS 30oW - Longitude - 8 hours to reach destination.

(I don't remember the question but can only outline it.)

Ans: 5 hr. 40 min.)

22. Three savings 20%, 40%, 10% - Net saving? (I don't remember this question also but can only outline it.)

23. _____

- A) Distance
- B) Time
- C) Velocity

24. n 100 or $100n$ (I don't remember exactly). If n increases by 1% then ---

25. Data Interpretation from Charts