

**INDIAN INSTITUTE OF TECHNOLOGY TIRUPATI**  
**DEPARTMENT OF CSE AND COMPUTER CENTER**  
**Staff Recruitment 2023: Adv No. IITT/STAFFREC/02/2023 dated 23.08.2023**

**Level I-A**  
**Screening Test: General Aptitude Multiple Choice Questions**

Date: 22 November 2023	Duration: 30 Minutes	Total Marks: 20				
Post Applied For: JTS (CSE) JT/JTS (SYS)	ADMIT CARD NUMBER (LAST FOUR DIGITS ONLY)	DEPT/SECTION CSE COMPUTER CENTER				
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## Instructions

- Write and mark carefully THE LAST FOUR DIGITS OF YOUR Admit Card Number, Post Applied for and Department Codes on the OMR Answer Sheet and sign at the appropriate place. In the absence of Admit Card Number and Signature on the OMR Answer Sheet, it may not be evaluated and it may be canceled.
- Candidates are not allowed to carry any papers, notes, books, cellular phones, calculators etc. Any candidate found using or in possession of such unauthorized material or involved in copy or impersonation or adopting unfair means or behaviors will be disqualified and may be subjected to penal action.
- The examination is objective type. **Wrong answers carry negative marks. For wrong answers: -0.25 Marks.**
- The candidate must check that the Question Booklet has 20 objective questions with multiple choice answers. If any discrepancy is found, report to the Invigilator immediately, so that the Question Booklet may be replaced.
- Each objective Question is followed by four answers in which one is correct. Your task is to choose the correct answer and **mark your Answer on the OMR Answer Sheet, Not on the Question Booklet.**
- Completely darken the CIRCLE so that the alphabet inside the CIRCLE is NOT visible. Darken only one circle for each question. The CORRECT and the WRONG method of determining the CIRCLE on the OMR Answer Sheet is shown below:

CORRECT METHOD	WRONG METHOD
○ ● ○ ○	○ ● ○ ●
	○ ⊗ ○ ●
	○ ⊗ ○ ○
	○ ⊗ ○ ●
	⊗ ⊗ ⊗ ⊗
	○ ● ○ ○

- Use blue/black ink ball point pen for darkening the circles on the OMR Answer Sheet. Do NOT use pencil.
- Folding/Wrinkling or putting any unwanted mark or damaging the OMR Answer Sheet is prohibited. The candidate will be responsible for invalidation of the OMR Answer Sheet for doing such deeds.
- Use the space provided for Rough work in the Question Booklet.
- The OMR Answer Sheet and the Question Booklet must be submitted to the Invigilator after the examination.

## Questions

- In a row of persons, the position of Venkat from the left side of the row is 26th and position of Venkat from the right side of the row is 35th. Find the total number of students in the row?  
(a) 67                      (b) 32                      (c) 60                      (d) 46
- A box contains 3 red balls, 5 green balls and 4 blue balls. In how many ways can 3 balls be drawn from the box, if at least one green ball is to be included in the draw?  
(a) 48                      (b) 52                      (c) 56                      (d) 60
- In a certain code language, 'PROGRAMS' is written as 'MSRAOGPR'. How is 'MACHINE' written in that code?  
(a) SENIHCAM              (b) ESINCHMA              (c) SNHAECIM              (d) ESINCMAH
- $4 : 32 :: 7 : ?$   
(a) 49                      (b) 98                      (c) 343                      (d) 88
- A series of three numbers is given as (1,8,27). What series below follows the same rule?  
(a) (5,12,32)              (b) (64,125,216)              (c) (64,216,343)              (d) (10,80,27)
- Find the odd man out:  
(a) January              (b) July                      (c) December              (d) September
- Sanjeev scored the highest marks in the class. Rahul scored more than Nirbhay but lesser than Sameer. Arpit scored more than Rahul. Who got the 4th Rank out of the five?  
(a) Sanjeev              (b) Sameer              (c) Arpit                      (d) Nirbhay
- What is the next number in the series: 16, 15, 36, 35, 64, ?  
(a) 63                      (b) 65                      (c) 66                      (d) 90
- The sum of ages of 5 children born at the intervals of 3 years each is 50 years. What is the age of the youngest child?  
(a) 4 years              (b) 8 years              (c) 10 years              (d) 12 years

10. From a bag containing red and blue balls, 10 each, 2 balls are drawn at random. Find the probability that one of them is red and the other is blue.
- (a)  $1/2$                       (b)  $10/19$                       (c)  $19/20$                       (d)  $2/3$
11. If EARTH is written as FCUXM in a certain code. How is MOON written in that code?
- (a) LNNM                      (b) NQRR                      (c) NRQR                      (d) LNNM
12. Identify the next two numbers in the series: 87, 90, 84, 88, 81, ?, ?
- (a) 85, 79                      (b) 82, 76                      (c) 86, 78                      (d) 79, 76
13. Sonia started from her house and travelled 4 km towards east. Then she turned left and travelled 6 km. Then she turned right and travelled 4 km. Now at what distance is she from starting point?
- (a) 8 km                      (b) 10 km                      (c) 12 km                      (d) 14 km
14. A man starts his journey facing the sun early morning. He then turns right and walks 2 km. He then walks 3 km after turning right again. Which is the direction he is facing now?
- (a) North                      (b) South                      (c) East                      (d) West
15. The total of the ages of Amar, Akbar and Anthony is 80 years. What was the total of their ages three years ago ?
- (a) 71 years                      (b) 72 years                      (c) 74 years                      (d) 77 years
16. In a cricket match, five batsmen A, B, C, D and E scored an average of 36 runs. D Scored 5 more than E; E scored 8 fewer than A; B scored as many as D and E combined; and B and C scored 107 between them. How many runs did E score?
- (a) 30                      (b) 32                      (c) 20                      (d) 36
17. A dealer sold an article at a loss of 2%. Had he sold it for 44 more, he would have gained 20%. The cost price of the article is:
- (a) 200                      (b) 400                      (c) 500                      (d) 600
18. A tank is filled in 5 hours by three pipes A, B and C. The pipe C is twice as fast as B and B is twice as fast as A. How much time will pipe A alone take to fill the tank?
- (a) 20 hours                      (b) 15 hours                      (c) 35 hours                      (d) 45 hours

19. How long does a train 1000m long moving at a speed of 90 km/hr take to pass through a 500 m long bridge?

- (a) 2 mins                      (b) 1 min                      (c) 10 mins                      (d) 30 mins

20. Find the 21-st term in this AP sequence : 12, 18, 24, 30, ...

- (a) 138                      (b) 164                      (c) 176                      (d) 202

**Space for Rough Work**