

**Master of Science (Digital Society)
IIIT Bangalore**

Sample Questions for Entrance Examination

The entrance examination will have six sections. The number of questions in every section may vary. The questions given below are intended to give the candidates a feel of the type of concepts that will be tested during the examination, and are not suggestive of the actual number of questions for any section or for the entire examination.

Section I: Numerical Ability

1) If the length of a rectangle is increased by 5.55%, by what percentage the width should be reduced so that the area remains same?

- A) 5.88%
- B) 5.55%
- C) 5.26%
- D) 6.25%

2) Find the value of k , where $k = 0.77 + 7.77 + 0.07 + 77.07 + 77.77 + 7.07$

- A) 169.52
- B) 170.42
- C) 169.42
- D) 170.52

3) Last year, the prices of tea and coffee were in the ratio of 12:23. Between last year and this year, the price of tea has risen in the ratio of 15:19 and that of coffee, in the ratio of 5:6. If this year a kg of coffee and a kg of tea together cost Rs. 214, how much does a kg of coffee cost?

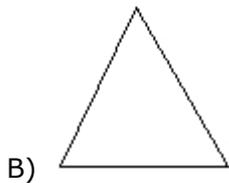
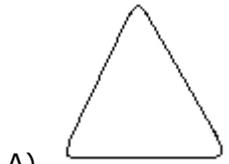
- A) Rs. 115
- B) Rs. 161
- C) Rs. 136
- D) Rs. 138

Section II: Analytical Ability

7) If SAMUEL is written as TZNTFK, what is the code for MANUAL?

- A) LZOVBM
- B) NZOTBK
- C) NZOSBM
- D) LZOVMZSW

8) Complete the Analogy:



9) In the following question, mark

- 1, if statement I alone can help determine the conclusion
- 2, if statement II alone can help determine the conclusion
- 3, if statement I and II taken together can help determine the conclusion
- 4, if none of the statements, taken together or separately, can help determine the conclusion

Who is the tallest of the four people?

Statement I: R is taller than H but shorter than N.
Statement II: S is taller than N.

- A) 1
- B) 2
- C) 3
- D) 4

Section III: Design Awareness

20) In the heavy snow fall areas of Himalayas, traditional houses have a

- A) Sloping roof
- B) Flat roof
- C) Dome roof
- D) Vault roof
- E) None of the above

21) Solar photo-voltaic panels convert sunlight to electricity. In India, they should face

- A) North
- B) East
- C) West
- D) South
- E) Any direction

22) In traffic signals Red light is used to ask people to stop because Red light

- A) Is beautiful
- B) Has a higher wavelength
- C) Has a lower frequency
- D) Can be seen from a long distance
- E) None of the above

23) A widget is

- A) An element of interaction like a check box and scroll bar
- B) A dwarf
- C) A winged imaginary person
- D) A beverage
- E) A computer program to draw shapes

24) Jugaad is

- A) Innovation which uses meagre resources
- B) A World War II jeep
- C) A precise engineering solution to a complex problem
- D) An Indian way of arguing
- E) None of the above