

I. Choose the appropriate synonym for the underlined word:

2x1=2

1. The incurable disease was devouring him
a) constructing b) building c) preserving d) exhausting
2. We only conjecture about his motives.
a) guess b) prove c) determine d) establish

II. Choose the appropriate antonym for the underlined word:

2x1=2

3. Ramanujan lived in a dingy house.
a) clean b) dirty c) messy d) tainted
4. They are making slow progress
a) progression b) advance c) reversal d) onrush

III. Do as directed:

5. Fill with appropriate connector: (1)

You can set the table. _____, I'll start making dinner.

- a) Otherwise b) Meanwhile
c) Although d) For instance

6. Choose appropriate passive form to fill in the blank: (2)

a) They broke up the table for firewood. /The table _____
up for firewood.

- a) broke b) had broken c) was broken d) is broken
- b) She has written a novel./A novel _____ by her.
a) was written b) is being written
c) has been written d) had been written

IV. Answer any three in brief: 3x2=6

7. Where did Ramanujan do his mathematical problems?
8. What did the Indian mathematician Bhaskara prove?
9. What disappointed Ramanujan's father?
10. Why did the students laugh at Ramanujan?

V. Quote from memory: (4)

11. Faster than and strong.

VI. Read the following poetic lines and answer the following: 4x1=4

12. "I cannot say if this is true

I do not have the right,

But I know no better spectacle?

Than a comet in full flight"

- a) Who does 'I' refer to?
b) What is mentioned as the best spectacle?
c) Mention the rhyme scheme
d) Pick out the rhyming words

VII. Write any one in a paragraph: (4)

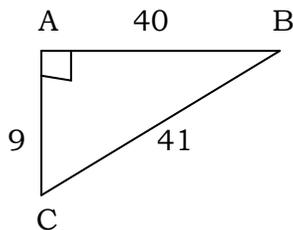
13. Narrate how the poet describes the Comet.
14. Describe the life of Srinivasa Ramanujan in India.

I. Choose the correct answer: 4x1=4

1. If the lateral surface area of a cube is 600cm^2 , then the total surface area is _____.
 a) 150cm^2 b) 400cm^2 c) 900cm^2 d) 1350cm^2
2. The capacity of a water tank of dimensions $10\text{m} \times 5\text{m} \times 1.5\text{m}$ is
 a) 75 litres b) 750 litres
 c) 7500 litres d) 75000 litres
3. The number of bricks each measuring $50\text{m} \times 30\text{cm} \times 20\text{cm}$ that will be required to build a wall whose dimensions are $5\text{m} \times 3\text{m} \times 2\text{m}$ is _____.
 a) 1000 b) 2000 c) 3000 d) 5000
4. If the ratio of the sides of two cubes are 2:3, then ratio of their surface areas will be _____.
 a) 4:6 b) 4:9 c) 6:9 d) 16:36

II. Answer any three of the following: 3x2=6

5. Find the volume of a cube whose side is 3.5m.
6. From the given figure, find all the trigonometric ratio of angle B



7. Find the TSA of a cuboid whose dimensions are length=20cm, breadth=15cm and height =8cm.
8. If $\tan A = \frac{2}{3}$, then find $\sin A$, $\cos A$.

9. If the total surface area of a cube is 2400cm^2 , find the side of a cube.

III. Answer any three of the following: 3x5=15

10. A cubical container of side 6.5m is to be painted on the entire outer surface. Find the area to be painted and the total cost of painting it at the rate of ₹ 24 per m^2 .
11. The dimensions of a sweet box are $22\text{cm} \times 18\text{cm} \times 10\text{cm}$. How many such boxes can be packed in a carton of dimensions $1\text{m} \times 88\text{cm} \times 63\text{cm}$?
12. A cubical tank can hold 64,000 litres of water. Find the length of its side in metres.
13. If $3\cot A = 2$, then find the value of $\frac{4\sin A - 3\cos A}{2\sin A + 3\cos A}$
14. Three identical cubes of side 4cm are joined end to end. Find the total surface area of the new resulting cuboid.