

Bhavan's Tripura Vidyamandir2nd Periodic Assessment: (2024-2025)**Class:- 7**

Time:- 2 Hours

Name of the student :

Subject:- Mathematics

Total :- 50 Marks

Roll: Section:

General Instruction:

- **Section A** contains 5 questions (1 to 5) each carries 1 mark.
- **Section B** contains 1 case-study (6 to 10) each carries 1 mark.
- **Section C** contains 5 questions (11 to 15) each carries 2 marks.
- **Section D** contains 6 questions (16 to 21) each carries 3 marks.
- **Section E** contains 3 questions (22 to 24) each carries 4 marks.

SECTION A1. Which of the following rational number is not equivalent to $\frac{4}{9}$?

a) $\frac{8}{18}$

b) $\frac{12}{27}$

c) $\frac{16}{36}$

d) $\frac{4}{8}$

2. Convert $\frac{5}{4}$ as percent.

a) 125%

b) 120%

c) 140%

d) none

3. Convert 25% to decimal fractions:

a) 0.35

b) 0.45

c) 0.25

d) 0.55

4. One example of 3-D shape is

a) Circle

b) Square

c) Line

d) Sphere

5. The simplest form of $\frac{25}{45}$ is

a) $\frac{8}{18}$

b) $\frac{5}{10}$

c) $\frac{5}{9}$

d) $\frac{15}{20}$

SECTION – B**Case Study:**

A shirt is made of a fabric which has $\frac{3}{5}$ parts cotton fibre and $\frac{2}{5}$ parts of polyester fibre. The price of the shirt is decreased from Rs.100 to Rs. 80. From this information answer the following:

6. Which fibre is more in the fabric?

a) Cotton

b) Polyester

c) Jute

d) Nylon

7. The percentage of cotton is

a) 10%

b) 40%

c) 60%

d) 80%

8. The percentage of polyester is

a) 20%

b) 40%

c) 50%

d) 70%

9. Decrease of price of the shirt is

a) Rs. 20

b) Rs. 40

c) Rs. 50

d) Rs. 10

10. Decrease percent of price of shirt is

a) 20%

b) 40%

c) 50%

d) 70%

SECTION – C

11. Find the whole quantity if 5% of it is 600

12. Out of 25 children in a class, 15 are girls. What is the percentage of girls?

13. Write the following rational numbers in ascending order $\frac{-3}{5}, \frac{-2}{5}, \frac{-1}{5}$

14. A polyhedron has 6 faces 8 vertices. Find the number of edges by using Euler's formula.

15. Find the sum of: a) $\frac{5}{4} + \frac{-11}{4}$ b) $\frac{-2}{3} + 1$

SECTION-D

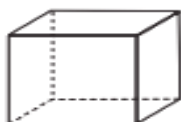
16. What rate gives Rs. 280 as interest on a sum of Rs. 56,000 in 2 years?
17. Ram walks $\frac{2}{3}$ km from a place Q, towards east and then from there $1\frac{5}{7}$ km towards west. Where will he be now from Q?
18. i) Find the product of $\frac{9}{2} \times \frac{-7}{4}$
ii) Find the value of $(-4) \div \frac{2}{3}$
19. What cross-sections do you get when you give a Vertical cut and Horizontal cut to the following solids?
- (i) A die, (ii) An ice-cream cone and (iii) A cricket ball
20. Find the number of Faces, Edges and Vertices of a cube.
21. I buy a T.V for Rs. 12,000 and sell it at a profit of 20%. How much money do I get for it?

SECTION-E

22. List four rational number between: $\frac{-4}{5}$ and $\frac{-2}{3}$
23. (i) Chalk contains calcium, carbon and oxygen in the ratio 10:3:12. Find the percentage of carbon in chalk.
ii) If in a stick of chalk, carbon is 3g, what is the weight of the chalk stick?
- 24.

Match the nets with appropriate solids:

(a)



(b)



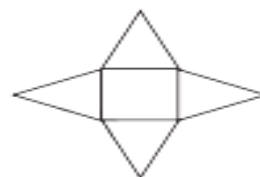
(c)



(d)



(i)



(ii)



(iii)



(iv)

