** SINDHI HIGH SCHOOL, HEBBAL**

**II -PERIODIC TEST (2022-23)**

**SUBJECT: MATHEMATICS**

**Class VIII Max Marks: 50**

**Date: 16-12-2022 Reading Time: 8:00 to 8:10 am**

**No. of sides: 04 Writing Time: 8:10 to 10:10 am**

**General Instructions:**

1) This question paper has 5 sections A-E

2) Section A has 6MCQ's carrying 1 mark each.

3) Section B has 4 questions carrying 2 marks

4) Section C has 6 questions carrying 3 marks.

5) Section D has 2 questions carrying 5 marks each.

6) Section E has 2 case based integrated units of assessments 4

marks each with sub parts of the values 1,1,2 marks each

7) Draw neat figures wherever required.

**SECTION-A (1X6=6)**

1) Convert 3:4 into percentage.

(a) 25% (b) 50% (c) 75% (d) 95%

2) The base of a parallelogram is 6m. If the area is 24 , the height of the

parallelogram is ------------

(a) 2m (b) 4m (c) 6m (d) 8m

3) 50 square shaped tiles each of dimension 3m x 3m are used for flooring a room.

The area of the floor is -------------

(a) 450 (b) 250 (c) 100 (d) 500

4) The area of rhombus is 120.If one diagonal is 20 cm, the length of the other

diagonal is -----------

(a) 12cm (b) 6cm (c) 32cm (d) 48cm

5) 10% of a certain number is 40, the number is ----------

(a) 200 (b) 400 (c) 600 (d) 800

6) Assertion (A): The salary of Manish is Rs10,000. His salary gets increased by10% .

So his new salary after the increase is Rs11,000.

Reason (R): A fraction represents a part of a whole or, more generally, any number

of equal parts.

1. Both A and R are true and R is the correct explanation of A
2. Both A and R are True, but R is not the correct explanation A
3. A is True, but R is False
4. A is False, but R is True

**SECTION-B (2X4=8)**

7) Bananas were bought at Rs 50 per dozen and sold at the rate of Rs 55 per dozen.

Find the gain %

8) The area of a triangle of altitude 15m is 225.what is the length of the base?

9) The area of rhombus is 84 square metre.If its perimeter is 40m, then find its altitude

10) A Shop keeper gives 20% discount on a pair of shoes ,whose MRP is s.750.

What would be the sale price of the pair of shoes?

**SECTION-C (3 X 6 = 18)**

11) (a) Find the area of the shaded portion in the figure given below.

(b) What will be the distance between the parallel lines of a parallelogram, whose

base is 30 cm and its area is 600.

12) The shape of the top surface of a dining table is trapezium, whose area is

1100; the distance between the 2 parallel sides measures 70 cm.Find the length

of the other parallel side.

13) A road roller takes 750 complete revolutions to move once over to level a road.

Find the area of the road, if the diameter of a road roller is 84 cm and length is 1m.

14) A shop keeper announced a festival discount of 30% for all the items in his shop.

Vani bought a saree for herself. She got a discount of Rs 960.What was the list

price of the saree that she bought?

15) The marked price of a fountain pen is Rs 80.If it is sold at 72, what is the discount

percentage?

16) Sona purchased the following items from Garuda mall. Find the sale price.

a) one pair of Nike shoes for Rs 850; VAT= 8 %

b) Leather jacket for Rs 2550; VAT =10%

**SECTION-D (5 X 2 = 10)**

17) Water is pouring into a cubical reservoir at the rate of 60 litres per minute. If the

volume of the reservoir is 108 cubic metre, Find the number of hours, it will take to

fill the reservoir

18) The marked price of a Skybag is Rs 2500. If after giving a discount of 10% ,the

trader still gets a profit of 12 %. Find the cost price of the Skybag.

**SECTION-E (4 X 2 = 8)**

19) The School management planned to construct an auditorium or a hall to hold

meetings in the school. The place has 14 cylindrical pillars. Each pillar has base of

radius 50 cm and height 10m .The dimension of the hall is 10m x 10m x 25 cm.

To fix the air conditioner for the auditorium, the contractor wanted to know the

volume of air that occupies the auditorium , The painting contractor quoted the rate

of painting the pillars as Rs 20 per square metre.

a) Find the total surface area of all the 14 pillars, which needed to be painted. (2marks)

b) Find the cost of painting all the pillars. (1mark)

c) Calculate the volume of air that can occupy the cuboidal shaped auditorium to fix the

air conditioner. (1 mark)

20) What is Interest?

Interest refers to the cost of borrowing money or the reward for lending money. Typically, banks charge interest on money borrowed on top of the expected repayment of the principal. At the same time, banks also pay interest on depositors’ funds in savings and investment accounts. They do so to entice more deposits, which they are for on-lending to customers, charging a higher interest rate than they pay the depositors.

Mr Kumar invested Rs 12,000 to start a business at 10% p.a. rate of interest compounded annually for 3 years..He finds that at the end of 3rd year, it amounts to Rs 15,972..

1. Find the interest received in the first year. (1 mark)
2. Find the amount at the end of 2nd year. (2 marks)
3. What will be the compounded interest for 12,000 at 10% p.a. for 3 years which amounts Rs 15,972 ? (1mark)

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