D.A.V. PUBLIC SCHOOL, THANE
SESSION: 2022-2023
PERIODIC TEST I (SET-A)
SUBJECT: MATHEMATICS

STD: VIII | **MAX.MARKS:20 M**
DATE: 25.07.2022 | **TIME: 45 minutes**

General Instructions:

1. **The question paper consists of 9 questions divided into 4 sections A, B, C and D**
   Section A comprises of 3 questions of 1 mark each.
   Section B comprises of 3 questions of 2 marks each.
   Section C comprises of 2 questions of 3 marks each.
   Section D comprises of 1 question of 5 marks.
2. **Internal choice has been given in one of the questions in section B, C and D.**

SECTION- A (Questions 1to 3 carry 1 mark each)

Q1. Find the cube of (-0.8).

Q2. x and y vary directly. If $x = 4$ and $y = 8$, find the constant of variation **k**.

Q3. Selling price= ₹1751, $Loss$ = ₹ 140 . Find the Cost Price .

SECTION- B (Questions 4 to 6 carry 2 marks each)

Q4. Evaluate: $\sqrt{36} + \sqrt{0.64} + \sqrt{0.0025}$

Q5. A farmer has enough food for 20 animals in the cattle for 6 days. How many days will the food last, if there are 30 animals in his cattle?

OR

The cost of 5metres cloth is ₹ 220. Find the cost of 7 metres of cloth of the same type.

Q6. Find the cube root of 46656 by prime factorization method.

D.A.V. PUBLIC SCHOOL, THANE
SESSION: 2022-2023
PERIODIC TEST I (SET-B)
SUBJECT: MATHEMATICS

STD: VIII | **MAX.MARKS:20 M**
DATE: 25.07.2022 | **TIME: 45 minutes**

General Instructions:

1. **The question paper consists of 9 questions divided into 4 sections A, B, C and D**
   Section A comprises of 3 questions of 1 mark each.
   Section B comprises of 3 questions of 2 marks each.
   Section C comprises of 2 questions of 3 marks each.
   Section D comprises of 1 question of 5 marks.
2. **Internal choice has been given in one of the questions in section B, C and D.**

SECTION- A (Questions 1 to 3 carry 1 mark each)

Q1. Find the cube of (-0.7).

Q2. x and y vary directly. If $x = 3$ and $y = 21$, find the constant of variation **k**.

Q3. Selling Price = ₹1452, $Loss$ = ₹ 120. Find the Cost Price .

SECTION- B (Questions 4 to 6 carry 2 marks each)

Q4. Evaluate: $\sqrt{25} + \sqrt{0.49} + \sqrt{0.0081}$

Q5. A farmer has enough food for 30 animals in the cattle for 5 days. How many days will the food last if there are 25 animals in his cattle?

OR

The cost of 9 dolls is ₹ 180. How many dolls can be purchased for ₹200?

Q6. Find the cube root of 91125 by prime factorization method.

SECTION-C (Questions 7 and 8 carry 3 marks each)

Q7. Find the square root of 53824 by the division method.

OR

Find the smallest number by which 7350 must be multiplied so that the product is a perfect square. Also, find the square root of the product obtained.

Q8. A train 300 m long is running at a steady speed of 60km/hr. Find the time taken by it to cross a bridge 450 m long.

SECTION-D (Question 9 carries 5 marks)

Q9. Amiya sold two calculators at ₹960 each. He made a profit of 20 % on one and suffered a loss of 4% on the other. Find his total profit or loss percent on the whole transaction.

OR

A shopkeeper purchased a dinner set for ₹650. He sells it at a discount of 20% and still makes a profit of 20% . Find: i) the Selling Price
ii) the Marked Price .

SECTION-C (Questions 7 and 8 carry 3 marks each)

Q7. Find the square root of 26244 by the division method.

OR

Find the smallest number by which 6480 must be divided so that the quotient is a perfect square. Also, find the square root of the quotient obtained.

Q8. A train 340 m long is traveling at a speed of 45 km/hr. Find the time taken by it to cross a bridge 160 m long.

SECTION-D (Question 9 carries 5 marks)

Q9. Mr. Rao sold two tables at ₹600 each. He made a profit of 20% on one and suffered a loss of 40% on the other. Find his total profit or loss percent on the whole transaction.

. **OR**

A shopkeeper purchased a sewing machine for ₹ 1200. He sells it at a discount of 10% and still makes a profit of 8%. Find; i) the Selling Price
ii) the Marked Price