પુ-ના International School
Shree Swaminarayan Gurukul, Zundal

Examination P A 3 2020 – 21					
Student Name				**Grade** 7^{th}	
Date				**Subject**	**MATHEMATICS**
Teacher's Sing		**Time**		**Total Marks**	**25**

Choose correct option **[1 x 6 = 6]**

1. Number of element of a triangle is

a. 6 b.5 c. 4 d. 3

2. Two figures are said to be congruent, if they have exactly the same

a. Area b. Perimeter c. Shape and size d. length and width

3. Two Triangles are congruent, if two angles and the side included between them in one of the triangle are equal to the two angle and the side included them of the Other triangle. This is known as the

a.RHS congruence criterion c. ASA congruence criterion

c. SAS congruence criterion d. AAA congruence criterion

.4. The ratio of Fatima's income to her saving is 4:1. The percentage of money saved by her is

a. 20 % b. 25% c.40% d. 80%

5. The interest on 30000 for 3 years at the rate of 15% per annum is.

a. Rs 4500 b. Rs 9000 c. Rs 18000 d. Rs 13500

6. The sum which will earn a simple interest of rupees 126 in 2 years at 14% per annum is

a. Rs 161.28 b. Rs 450 c. Rs 500 d. None

Fill the blank **[1 x 4 = 4]**

1. Two line segments are congruent, if _____
2. When we write ∠ A = ∠ B, we actually means _____
3. A _____ with its denominator 100 is called a percent.
4. 15 kg is _____ percent of 50 kg.

Tell whether the statement is true or false: **[1 X 4 = 4]**

1. 65% is equal to 5 / 3.
2. When an improper fraction is converted into percentage, Then the answer can also be less than 100
3. If three angles of a triangle are equal to the corresponding angles of another triangle , then the Triangles are congruent
4. If two legs of a right angle triangle are equal to two legs of another right angle triangle, then the right angled Triangles are congruent.

Solve: Each carry one marks **[1X 4 = 4]**

1. Which angle is included between the sides DE and EF of ΔDEF?

2. Δ PQR ≅ ΔBCA. Write the part of ΔBCA that corresponding to side QR

3. Find ratio of 4 m to 400 cm.

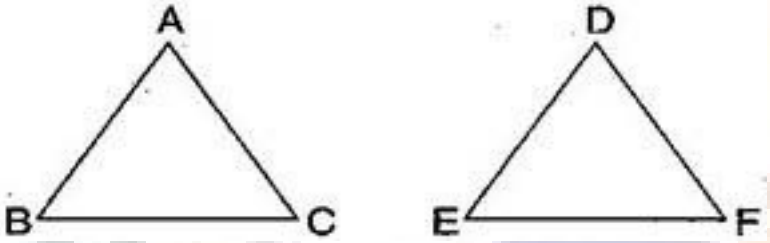
4. Find Loss or profit: a radio bought for Rs 12000 and sold at Rs 1350

Solve: Each carry two marks (Any two) **[2 X 2= 4]**

1. Which congruence criterion do you use in the following?

Given: AC = DF, AB = DE, BC = EF

So $\Delta ABC \cong \Delta DEF$



2. You have to show that $\Delta AMP \cong \Delta AMQ$. In the following proof, supply the missing reasons

Steps	Reasons
1. PM = QM	1. _____
2. ∠PMA = QMA	2. _____
3. AM = AM	3. _____
4. ΔAMP ΔAMQ	4. _____

3. Find the amount to be paid at the end of 3 years for Principal = Rs. 1,200 at 12% p.a.

4. Find the whole quantity x if: 12% of it is Rs. 1080

5. Find the whole quantity x if: 70% of it is 14 minutes

Solve: Each carry three marks (Any one) **[3 X 1 = 3]**

1.Arun bought a car for Rs. 3,50,000. The next year, the price went up to Rs. 3,70,000. What was the percentage of price increase?

2. If ΔABC and ΔPQR are to be congruent, name one additional pair of corresponding parts. What criterion did you use?