પુખ્ના International School

Shree Swaminarayan Gurukul, Zundal

Examination P A 3 2020 – 21					
Student Name				**Grade** 8^{th}	
Date				**Subject**	**MATHEMATICS**
Teacher's Sing		**Time**		**Total Marks**	**25**

Choose correct option **[1 x 4 = 4]**

1. By selling 50 items, a shopkeeper lost the amount equal to the selling price of 10 items. His loss percent is

   a. 30/7 % b. 40/3 % c. 25/3 % d. 50/3 %

2. After allowing a discount of 15 % on the marked price of a pen-drive, it is sold for Rs 680. The marked price of the article is

   a. Rs 700 b. Rs 600 c. Rs 800 d. Rs 750

3. Which of the following is a binomial?

   a. 13Xb23Xb b. $6b^2 + 7a + 2c$ c. $45 (b^2 + a)$ d. 13a X 3b X 5c

4. Sum of 17abc, 13abc and 5abc is

   a. 35ab b. 30abc c. 35abc d None

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

1. 3500 is greater than 500 by _____ %
2. Ten times a number is _____ % increase in the number.
3. The product of two terms with like signs is a _____ term.
4. The product of two polynomials is a _____

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

.1. The sale price is regular price minus the discount.

2. The cost price of 10 tables is equal to the sale price of 5 tables. Then, profit percent is 100%

3. An equation is true for all values of its variables.

4. The value of p for $21^2 - 19^2 = 10p$ is 8.

Solve: Each carry one marks (Any four) **[1X 4 = 4]**

1. Find the discount, When M.P = Rs 625 and S P = Rs 562.50
2. Convert 7:3 in to percentage.
3. Add: 7xy and -5xy

4. Find product: (a^2) X $(2a^3)$

Solve: Each carry two marks (Any Three) **[2 X 3= 6]**

1. 72% of 25 students are good in mathematics. How many are not good in mathematics?

2. A football team won 10 matches out of the total number of matches they played. If their win percentage was 40, then how many matches did they play in all?

3. Add the following: $ab-bc, bc-ca, ca-ab$

4. Obtain the volume of rectangular box with the length, breadth and height respectively: 5a, $3a^2$, $7a^4$

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

1. Kamala borrowed Rs.26, 400 from a Bank to buy a scooter at a rate of 15% p.a. compounded yearly. What amount will she pay at the end of 2 years and 4 months to clear the loan?

(Hint: Find A for 2 years with interest is compounded yearly and then find SI on the 2nd year amount for $\frac{4}{12}$ years).

2. Find the product:

(i) $(5-2x)(3+x)$

(ii) $(x+7y)(7x-y)$