पुष्ना International School
Shree Swaminarayan Gurukul, Zundal

PERIODIC ASSIGNMENT -1 2021-22
Grade – 8 / / Subject- MATHS
Syllabus – CH- 1, 2, 3

General Instructions

- **The paper is divided into two sections**
- **All questions are compulsory.**

PART: A

MULTIPLE CHOICE QUESTIONS

1. A simple closed curve made up of only_____is called a polygon.

(a) Curves **(b) line segments** (c) lines (d) closed curves

2. A polygon with minimum number of sides is

(a) Pentagon (b) Square **(c) triangle** (d)angle

3. Polygons that have no portions of their diagonals in their exteriors are called

(a) Squares (b) triangles **(c) convex** (d) concave

4. Polygons that have any portions of their diagonals in their exteriors are called

(a) Squares (b) triangles (c) convex **(d) concave**

5. Sum of all interior angles of a polygon with (n) sides is given by

(a) (n – 2) x 180 ° (b) n – 2 x 180 ° (c) (n + 2)x 180 ° (d) n + 2 x 180 °

6. Maximum number of right angles in a right angled triangle are

(a) 2 **(b) 1** (c) 3 (d) 0

7. Sum of all interior angles of a parallelogram is

(a) 180 ° **(b) 360°** (c) 540° (d) 240°

8. The angle sum of all interior angles of a convex polygon of sides 7 is

(a) 180 ° (b) 540 ° (c) 630 ° **(d) 900 °**

9. Each exterior angle of a regular hexagon is of measure

(a) 120 ° (b) 80 ° (c) 100 ° **(d) 60 °**

10. The number of sides in a regular polygon is 15 , then measure of each exterior angle is

(a) 24° (b) 36° (c) 20° (d) 18°

11. All the sides of a regular polygon are_____.

(a) Parallel **(b) equal in length** (c) not parallel (d) not equal

12.. All the angles of a regular polygon are o f _____.

(a) 90 ^{o} (b) 60 ^{o} **(c) equal measure** (d) equal length

13. The value of x which the expressions (3x - 4) and (2 x + 1) become equal is?

(a) 5 (b) 10 (c) 6 (d) None

14. Solve for p: 17 + 6 p = 9 is

(a) 4/3 (b) **-4/3** (c) 3/4 (d) – 3/4

15. Solve for x: 3x = 2x + 18 is

(a) 18/5 (b) - 18 **(c) 18** (d) None

16. Solve for x: x/3 + 1 = 7/15 is

(a) **-8/5** (b) 8/5 (c) 5/8 (d) – 5/8

17. The reciprocal of positive rational number is?

(a) Negative (b) Zero **(c) Positive** (d) None

18. The additive identity for Rational number is?

(a) 0 (b) 1 (c) – 1 (d) None

19. The multiplicative identity for Rational number is?

(a) 0 **(b) 1** (c) – 1 (d) None

20. The multiplicative inverse of the Rational number $\frac{a}{b}$ is $\frac{c}{d}$ than $\frac{a}{b}$ X $\frac{c}{d}$ is?

(a) 1 (b) – 1 (c) 0 (d) None

Fill in the blank

1. zero has _____ reciprocal.
   Ans. No

2. The additive inverse of -5/9 is _____
   Ans. 5/9

3. A closed curve which does not cross itself, is called a _____
   Ans. Simple closed curve

4. _____ is a quadrilateral with one pair of parallel sides.
   Ans. Trapezium

5. There are _____ rational numbers between any two rational numbers
   Ans. Infinite

6. The negative of a negative rational number is always a_____ rational number.
   Ans. Positive

7. _____ is a regular quadrilateral.
   Ans. Square

8. A parallelogram each of whose angles measures 90^o is _____

   Ans. rectangle

9. A parallelogram whose all sides are equal is called _____

   Ans. rhombus

10. The diagonals of a rhombus bisect each other at _____ angle.

    Ans. right

11. The numbers _____ and _____ are their own reciprocals.
    Ans : 1 and -1

12. If x + 3 = 10 than x = _____
    Ans : 7

State whether the following statements are true or false:

1. A polygon having 10 sides is known as nonagon. **False**
2. A linear equation in one variable has two solutions. **False**
3. Integers cannot be represented on the number line. **False**
4. The negative of 0 does not exist. **True**
5. Two different equations can never have the same answer. **False**
6. In square diagonals are equal. **True**
7. Kite is a parallelogram in which each pair of opposite sides is parallel. **False**
8. Reciprocal of 1/x, where $x \neq 0$ is x **True**
9. The product of two rational number is always a Rational number **True**

Write answer in one word

1. The smallest natural number is.
   Ans **: 1**

2. The smallest whole number is

   Ans **: 0**

3. The smallest odd prime number is

   Ans **: 3**

4. The additive inverse of -7 /19 is

   Ans : **7 / 19**

5. The Reciprocal of 2/3 is

   Ans : **3/2**

6. Which number has no reciprocal?

   Ans **: 0**

7. The Reciprocal of -5 is

   Ans **: -1/5**

8. Solve for x: x - 2 = 7 is
   Ans: **9**

9. The solution of the equation ax + b = 0 is
   Ans: **-b/a**

10. The shifting of a number from one side of an equation to other is called?
    Ans: **Transposition**

Solve: each carry two marks

1. Represent 7/4 on the number line.

2. Verify that – (-x) = x for x = $\frac{-11}{15}$

3. If you subtract $\frac{1}{2}$ from a number and multiply the result by $\frac{1}{2}$, you get $\frac{1}{8}$, what is the number?

4. Solve for t: 5t – 3 = 3t – 5

5. Solve for x: $\frac{8x-3}{3x} = 2$
6. The measures of two adjacent angles of a parallelogram are in the ratio 3:2. Find the measure of each of the angles of the parallelogram.
7. Represent 7/8 on the number line.

Solve: each carry three marks

1. Sum of two numbers is 95. If one exceeds the other by 15, find the numbers.
2. The ages of Hari and Harry are in the ratio 5:7. Four years from now the ratio of their ages will be 3:4. Find their present ages.
3. State the name of a regular polygon of with

   (i) 3 sides (ii) 4 sides (iii) 6 sides (iv) 5 sides

4. The angle measurements of a quadrilateral are 35 degree, 49degree, 67 degree .Than find measure of fourth angle.

PAPER FORMATE

PART – A

MULTIPLE CHOICE QUESTIONS	**[1 X 5 = 5]**
FILL IN THE BLANK	**[1 X 3 = 3]**
STATE WHETHER THE FOLLOWING STATEMENTS ARE TRUE OR FALSE	**[$\frac{1}{2}$ X 4 = 2]**
WRITE ANSWER IN ONE WORD	**[1 X 3 = 3]**

PART – B

SOLVE: EACH CARRY TWO MARKS	**[2 X 3 = 6]**
SOLVE: EACH CARRY THREE MARKS	**[3 X 2 = 6]**