GRADE VI

ASSESSMENT-II

TIME:$2^{1/2}$ hrs **MATHEMATICS** **M.M:80**

Instruction: Read the question paper carefully. Write neatly and legibly with correct question numbers. All work, including rough work, must be clearly shown and be done on the same sheet as the rest of the answer. Omission of essential working will result in loss of marks.

Attempt all questions from Section A. The intended marks for question or parts of questions are given in brackets [ ].

SECTION A

I. Choose the correct answers: **(10)**

1. 6.9, 5.4, 3.5 and 7.2 are:
   a)Like decimals b)unlike decimals c)equal decimals d) none of these
2. The LCM of 12,15,20,27 is:
   a)270 b)360 c) 480 d) 540
3. The distance covered by a moving body in a unit of time is called:
   a) Time b) Distance c) Speed d) None of these
4. A symbol having a fixed value is called:
   a) Variable b) Constant c) Literal d) Power
5. X increased by 24 is:
   a) X-24 b) X+24 c) 24XY d) 24(X+Y)
6. An algebraic expression having only one term is called:
   a) Binomial b) Trinomial c) Monomial d) Expression
7. The sum of all the four angles of a quadrilateral is:
   a) 180° b) 360° c) 90° d)below 90°
8. An isosceles trapezium has:
   a) Equal parallel sides c) Equal opposite sides
   b) Equal non parallel sides d) None of these
9. A graph drawn using a vertical bars is called:
   a) Line graph b) a bar graph c) a pictograph d) none of these
10. The mean of 5,11,17,23,31and 36 is:
    a)20 b) 20.5 c) 21.3 d) 23.5

II. Fill in the blanks: **(10)**

1. A data represented through the pictures of objects is.....
2. A parallelogram having all sides equal is called.....
3. Letters used to represent numbers are called.....

4. The degree of polynomial X+2Y-3Z is.....
5. The coefficient of a in $-5ab^2$ is.....
6. Distance=.....×.....
7. 6/25 in decimal form is.....
8. .....is a multiple of every number.
9. All the factors of 20 are.....
10. .....is the only even prime number.

III. Write true or false: (6)

1. The place value of 4 in 3.046 is 40.
2. A prime number has exactly two factors.
3. Percent means 'Per hundred'.
4. To convert a speed km/hr into m/sec, we multiply by 5/18.
5. 5xy and 6axy are unlike terms.
6. In a kite two pairs of adjacent sides are equal.

IV. Solve the following: (14)

1. Show that 17 is a factor of 1241.
2. Write 23/10 into a decimal.
3. 4,11,22,33 are in proportion
4. Find the value of 14% of ₹75.
5. Write all the factors of $3pq^2$.
6. Add 9x, 7x.
7. Write all prime numbers between 30 and 40.

SECTION B

V. Solve: (4)

1. Simplify:
   23+18÷6+3×(-4)
2. Find the H.C.F of 252, 576.

VI. Solve: (4)

1. Express 15% as a: (i) fraction (ii) decimal (iii) ratio
2. Convert 9km/hr into m/sec.

VII. Find the following: (4)

1. Find the value of $6x^2-5x+4$ when x=5.
2. Find the sum of algebraic expression
   8-3b+11c, 5b-6a+7c and 9c+2a-8b.

VIII. Solve (any four): (10)

1. Rajan purchased a geometry box for ₹139.75, a color box for ₹48.80 and a register for₹46.50. What amount did he pay to the shopkeeper.
2. The H.C.F. of two numbers is 23 and their L.C.M is 276. If one of the numbers is 92. Find the other.
3. The ratio of tin and zinc in an alloy is 3:4. In 21gm of alloy. Find the quantity of (i) Tin and (ii) zinc

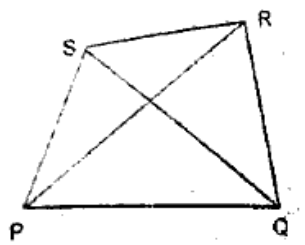
4. If 8 kg rice costs ₹620. What will be the cost of 18 kg of rice?
5. In an examination, Renu obtained 480 marks out 0f 750. What percentage of marks did she get.
6. A car is moving at a speed of 90 km/hr. How far will it go in 48 minutes.

IX. Three angles of a quadrilateral measure 36°,78°and116° respectively. Find the measure of the fourth angle.

OR

A quadrilateral has three acute angles each measuring 75°. What is the measure of its fourth angle? **(4)**

X. In the adjoining figures, PQRS is a quadrilateral: **(4)**



1. Name a pair of its adjacent sides.
2. Name a pair of its opposite sides
3. Name a pair of its adjacent angles.
4. Name a pair of its opposite angles.

XI. 1. The height of 5 boys in a group are 152cm, 170cm, 156cm and 164cm and 158cm. Find the mean height: **(4)**

2.The number of trees of various kinds in a fruit orchard are given below: **(6)**

TREE	APPLE	BANANA	PEACH	APRICOT	PLUM
NO.OF TREES	56	40	16	32	24

Represent the above data by pictograph.

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