GENIUS HIGH SCHOOL

BHONGIR

SUMMATIVE ASSESSMENT - II

Class: VII Max. Mark: 50 Subject: Maths Duration: 2 hours

SECTION – A

Answer the following questions. Each question carries 1 mark (5m)

1. If $\triangle ART \triangle PEN$, then $RT = _$ and $\angle A = _$ (a) EN, $\angle P$ (b) $\angle P$, EN (c) PE, $\angle T$ (d) PN, $\angle N$ 2. Which of the following English alphabet has reflectional symmetry about a vertical mirror? (a) B (b) D (c) V (d) E 3. The ratio of 3km to 300m is (a) 1 : 10 (b) 10 : 1 (c) 3 : 100 (d) 100 : 3 4. The value of 5m - 2=8 is (a) 1 (b) 25 (c) 0 (d) 2 5. When a ball is cut horizontally, its cross section is a _____. a) Square (b) Rectangle (c) Circle (d) Triangle

SECTION – B

Answer the following questions. Each question carries 2 marks (10m)

6. Express 1000 as product of powers of its prime factors.

7. Draw 2 plane figures with more than one line of symmetry.

8. Draw an oblique sketch of a cuboid.

9. Find the whole quantity, if 40% of it is 500km.

10. Find the Simple Interest on Rs.5000 for 3 years at the rate of 10% per annum.

SECTION – C

Answer the following questions. Each question carries 3 marks (15m)

11. The perimeter of a rectangular sheet is 100 cm. If the length is 35cm, find its breadth. Also find its area.

12. Simplify the expression 2(a + ab) - ab and find its value if a = 5 and b = 2. 13. Arrange the following rational numbers in ascending order: -3/7, -3/4, -3/2.

14. Write the Order of Rotation and angle of symmetry of (a) Square (b) Rectangle and (c) Equilateral Triangle.

15. Draw the Top, Side and Front view of the solid: (a) cube (b) cone (C) cylinder.

SECTION – D

Answer the following questions. Each question carries 4 marks (20m)

16. Find: (a) ¹/₂ + ³/₄ (b) ³/₄ - ³/₄ (C) 3¹/₂ x 2 ³/₄ (d) 5/3 by 4/5

17. Find the mean , median , mode and range for the following observations 22,24,23,25,22,26,21,20,22.

18. Construct a triangle ABC where AB=4.5cm, BC=5cm and AC=6cm.

19. Add 5xy-xz-12y+5x, xy-3x-12yz+5xz and y-6xz-zy+5z.

20. A school conducted a survey to know the favourite sports of the students. The table below shows the results of the survey.

Name of the sport	Total number of students
Cricket	45
Football	53
Basket ball	20
Volley ball	40
Chess	66
Table tennis	22
Badminton	37