**Aarambh Classes**

**Class VII**

**MATHS TEST**

**Square roots and mensuration**

**Time : 1 hour M.Marks : 20**

1. Find a pythagorean triplet in which one member is 12 . 2
2. Find the smallest square number which is divisible by each of the numbers 6,9 and 15 . 2
3. Find the least number that must be added to 1300 so as to get a perfect square .Also find the square root of the perfect square . 2
4. Find the square root of 7921 by division method . 2
5. Find the area of a rhombus whose side is 5 cm and whose altitude is 4.8 cm .If one of its diagonals is 8 cm long ,find the length of the other diagonal . 3

6. Find the height of a cylinder whose radius is 7 cm and the total surface area is 968 square cm .3

7. A godown is in the form of acuboid of measures 60 m x40mx 30 m.How many cuboidal boxes can be stored in it if the volume of one box is 0.8 m3  ? 3

8. A rectangular piece of paper 11 cm x4 cm is folded without overlapping to make a cylinder of height 4 cm .Find the volume of the cylinder . 3