



**Assignment**

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Date: \_\_ / \_\_ / \_\_

Name: \_\_\_\_\_

Max Marks: 21

**Section A (Three marks each)**

1. The four walls of a rectangular room has a perimeter 250 m. If the cost of white washing the four walls at the rate of 10 per  $m^2$  is Rs 150000. Find the height of the room.
2. Shanti Sweets Stall was placing an order for making cardboard boxes for packing their sweets. Two sizes of boxes were required. The bigger of dimensions 25 cm  $\times$  20 cm  $\times$  5 cm and the smaller of dimensions 15 cm  $\times$  12 cm  $\times$  5 cm. For all the overlaps, 5% of the total surface area is required extra. If the cost of the cardboard is Rs 4 for 1000  $cm^2$ , find the cost of cardboard required for supplying 250 boxes of each kind.
3. A metal pipe is 77 cm long, the inner diameter of the cross- section is 4 cm and the outer diameter is 4.4cm. Find its
  1. inner curved surface area
  2. outer curved surface area
  3. total surface area
4. In a hot water heating system, there is a cylindrical pipe of length 28 m and diameter 5 cm. Find the total radiating surface in the system.
5. Find:
  - (i) The lateral or curved surface area of a closed cylindrical petrol storage tank that is 4.2 m in diameter and 4.5 m high.
  - (ii) How much steel was actually used, if 1/12 of the steel actually used was wasted in making the tank.
6. The students of a Vidyalaya were asked to participate in a competition for making and decorating penholders in the shape of a cylinder with a base, using cardboard. Each penholder was to be of radius 3 cm and height 10.5 cm. The Vidyalaya was to supply the competitors with cardboard. If there were 35 competitors, how much cardboard was required to be bought for the competition?
7. The frame of a lampshade is to be covered with a decorative cloth. The frame has a base diameter of 20cm and height of 30cm a margin of 2.5cm is to be given for folding it over the top and bottom of the frame. Find how much cloth is required for covering the lampshade?