



Assignment

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Date: __ / __ / __

Name: _____

Max Marks: 20

Section- A (One Marks Each)

- 1 What is the volume of a right circular cone with radius 3 cm and height 14cm?
a) 25cm^3 b) 198cm^3 c) 66cm^3 d) 132cm^3
- 2 What is the capacity (in liters) of a conical vessel with radius 6 cm and slant height 10 cm?
a) $\frac{2112}{7}$ liters b) $\frac{2112}{7}$ liters c) 2040 liters d) 2.640 liters
- 3 Which of the following is the radius of a cone with height 30 cm and volume 6160cm^3 ?
a. $\sqrt{\frac{196}{8}}\text{cm}$ b. $\frac{\sqrt{196}}{3}\text{cm}$ c. 14 cm d. $\frac{616}{3}\text{cm}$
- 4 Which of the following represents the amount of liquid displaced by a solid spherical ball of diameter 30 cm?
a) $\frac{6600}{7}\text{cm}^3$ b) $\frac{19800}{7}\text{cm}^3$ c) $\frac{99000}{7}\text{cm}^3$ d) $\frac{9000}{7}\text{cm}^3$
- 5 Which of the following is total surface area of hemisphere with radius 21 cm?
a) 4158cm^2 b) 924cm^2 c) 616cm^2 d) 1016cm^2
- 6 Which of the following is total surface area of a cone whose radius is 14 cm and curved surface area is 400cm^2 ?
a) 1232cm^2 b) 1632cm^2 c) 616cm^2 d) 1016cm^2

Section-B (Two Marks Each)

- 7 A corncob, somewhat like a cone, has radius of its broadcast end as 2.1 cm and length as 20 cm. if each 5cm^2 of surface of the cob carries an average of 10 grains, how many grains are there on the entire cob?
- 8 A hemispherical tank is made up of an iron sheet, which is 30 dm thick. If the inner radius of the tank is 2 m, find the volume of the iron used to make the tank.

Section-C (Three Marks Each)

- 9 What length of tarpaulin, which is 4 m wide, will be required to make conical tent of height 12 m and base radius 5 m? assume that the extra length of material that will be required for stitching margins and wastage in cutting is approximately 45 cm.
- 10 If volume of the moon is $\frac{1}{125}$ th of volume of the earth, what fraction of diameter of the earth is the diameter of the moon?

Section-D (Four Marks Each)

- 11 If diameter of a sphere be 75%, by what percent will its curved surface area increase?