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ST. LAWRENCE HIGH SCHOOL



A Jesuit Christian minority Institution

Subject: Mathematics

Class: X

Date: 27.04.2020

Worksheet-18

Chapter- Right circular cone

Topic- Curved and whole surface area

1. Choose the correct alternative. 1x15=15
- a) Radius of the base of a right circular cone is 20 cm and slant height is 25 cm .
What is the height of the cone?
i) 10 cm ii) 15 cm iii) 20 cm iv) none of these
- b) Radius of the base of a right circular cone is 21 cm and slant height is 25 cm .
What is the curved surface area?
i) 1650 sq cm ii) 1650 cm iii) 1750sq cm iv) none of these
- c) What is the whole surface area of a right circular cone with 1.4 cm radius and 2.5 cm slant height? i) 171.6 sq cm ii) 17.16 sq cm iii) 17.16 cm iv) none of these
- d) Find the height of a right circular cone with 10 cm slant height and 12 cm diameter of its base.
i) 8cm ii) 6 cm iii) 4 cm iv) none of these
- e) Find whole surface area of a right circular cone with radius $r/2$ cm and slant height 2l cm.
i) $2\pi r(r+l)$ cm ii) $\pi r(l+r/4)$ sq cm iii) $\pi r(l+r)$ sq cm iv) none of these
- f) Find curved surface of a right circular cone with slant height 15 cm and base diameter 16 cm.
i) 60π sq cm ii) 68π sq cm iii) 120π sq cm iv) none of these
- g) Curved surface area of a right circular cone is $\sqrt{5}$ times of the base area. find ratio of the height and radius.
i) 1:2 ii) 2:1 iii) 1:1 iv) none of these

h) Find curved surface area of a right circular cone with base diameter 21 m and height 14 m.

i) 577.5sq m ii) 577.5 sq cm iii) 576.5 sq m iv) none of these

i) To colour the curved surface of the right circular cone mentioned in question no. (h) at Rs 1.50/ sq m we need i) Rs 867.25 ii) Rs866.25 iii) Rs 888.25 iv) None of these

j) Whole surface area of a right circular cone with base diameter 24 cm and slant height 21 cm is

i) 1244.57 sq cm ii) 1255.57 sq cm iii) 1244.57 sq m iv) none of these

k) Find slant height of a right circular cone with base diameter 48 cm and height 10 cm .

i) 25 cm ii) 23 cm iii) 26 cm iv) none of these

l) Find area of curved surface of a right circular cone with diameter 10.5 cm and slant height 10 cm .

i) 165 sq cm ii) 165sq m iii) 156 sq cm iv) none of these

m) Radius and slant height of a right circular cone are 35 cm and 37 cm respectively. Find whole surface area.

i) 7920 sq m ii) 7920 sq cm iii) 7290 sq cm iv) none of these

n) Ratio of radius and slant height of a right circular cone is 7 :13. Curved surface area is 286sq cm. Then Radius is i) 9 cm ii) 13 cm iii) 7 cm iv) none of these

o) Slant height and height of a right circular cone are 10 m and 8 m respectively. Then curved surface area is i) 60π sq m ii) 120π sq m iii) 90π sq m iv) none of these

Aparajita Mondal