

D.K.M.COLLEGE FOR WOMEN (AUTONOMOUS)
APTITUDE TEST

- a) $33-\sqrt{3}\text{cm}$
c) $93-\sqrt{3}\text{cm}$

- b) 9 cm
d) 3 cm

10. The base of a prism is a right angled triangle with two sides 5 cm and 12 cm. The height of the prism is 10 cm. The total surface area of the prism is:

- a) 360 sq.cm.
c) 330 sq.cm.

- b) 300 sq.cm.
d) 325 sq.cm.

11. A right triangle with sides 3 cm, 4 cm and 5 cm is rotated the side of 3 cm to form a cone. The volume of the cone so formed is:

- a) $12\pi \text{ cm}^3$
c) $16\pi \text{ cm}^3$

- b) $15\pi \text{ cm}^3$
d) $20\pi \text{ cm}^3$

12. In a shower, 5 cm of rain falls. The volume of water that falls on 1.5 hectares of ground is:

- a) 75 cu. m
c) 7500 cu. m

- b) 750 cu. m
d) 75000 cu. m

13. A hall is 15 m long and 12 m broad. If the sum of the areas of the floor and the ceiling is equal to the sum of the areas of four walls, the volume of the hall is:

- a) 720
c) 1200

- b) 900
d) 1800

14. 66 cubic centimetres of silver is drawn into a wire 1 mm in diameter. The length of the wire in metres will be:

- a) 84
c) 168

- b) 90
d) 336

15. A hollow iron pipe is 21 cm long and its external diameter is 8 cm. If the thickness of the pipe is 1 cm and iron weighs 8 g/cm^3 , then the weight of the pipe is:

- a) 3.6 kg
c) 36 kg

- b) 3.696 kg
d) 36.9 kg

16. 50 men took a dip in a water tank 40 m long and 20 m broad on a religious day. If the average displacement of water by a man is 4 m^3 , then the rise in the water level in the tank will be:

- a) 20 cm
c) 35 cm

- b) 25 cm
d) 50 cm

17. The slant height of a right circular cone is 10 m and its height is 8 m. Find the area of its curved surface.

- a) $30\pi \text{ m}^2$
c) $60\pi \text{ m}^2$

- b) $40\pi \text{ m}^2$
d) $80\pi \text{ m}^2$

18. A cistern 6m long and 4 m wide contains water up to a depth of 1 m 25 cm. The total area of the wet surface is:

- a) 49 m^2
c) 53.5 m^2

- b) 50 m^2
d) 55 m^2

19. A metallic sheet is of rectangular shape with dimensions 48 m x 36 m.

