

## Worksheet: Surface Areas and Volumes

ISC · Class 9 · Mathematics · 5 questions · 11 marks

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

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

Score: \_\_\_\_\_ / 11

**Q1.** Find the curved surface area of a cylinder with radius 3.5 cm and height 10 cm. (Use  $\pi = 22/7$ .) [1 mark]

**Q2.** Find the volume of a sphere of radius 7 cm. (Use  $\pi = 22/7$ .) [1 mark]

**Q3.** A cone has height 12 cm and radius 5 cm. Find its slant height and total surface area. (Use  $\pi = 22/7$ .) [2 marks]

**Q4.** A solid is a cylinder (radius 7 cm, height 10 cm) with a hemisphere of the same radius on top. Find the total surface area. (Use  $\pi = 22/7$ .) [3 marks]

**Q5.** A metallic sphere of radius 10.5 cm is melted and recast into small cones of radius 3.5 cm and height 3 cm. How many cones are formed? [4 marks]