**1. The volume of a cone with radius 6 cm and height 7 cm is:**
A. 756 $cm^3$
B. 672 $cm^3$
C. 804 $cm^3$
D. 324 $cm^3$ (B)
**Explanation:** Volume of cone = $(1/3)\pi r^2 h$ = $(1/3) \times 3.14 \times 6^2 \times 7 = 672\ cm^3$.

**2. The volume of a cone with radius 3.5 cm and height 12 cm is:**
A. 462 $cm^3$
B. 498 $cm^3$
C. 483 $cm^3$
D. 462.5 $cm^3$ (A)
**Explanation:** Volume = $(1/3)\pi r^2 h = (1/3) \times 3.14 \times (3.5)^2 \times 12 = 462\ cm^3$.

**3. The capacity in liters of a conical vessel with radius 7 cm and slant height 25 cm is:**
A. 2.04 L
B. 3.14 L
C. 1.76 L
D. 4.12 L (A)
**Explanation:** Using the volume formula for a cone, convert $cm^3$ to liters.

**4. If the height of a cone is 15 cm and its volume is 1570 $cm^3$, the radius of the base is:**
A. 5 cm
B. 6 cm
C. 7 cm
D. 8 cm (C)
**Explanation:** Using volume formula: radius = $\sqrt{(3 \times \text{volume} / (\pi \times \text{height}))}$.

**5. The volume of a right circular cone with height 9 cm is 48π $cm^3$. The diameter of its base is:**
A. 8 cm
B. 12 cm
C. 18 cm
D. 16 cm (B)
**Explanation:** Using the formula for volume and solving for diameter.

**6. The capacity of a conical pit with a top diameter of 3.5 m and depth 12 m is:**
A. 37.5 kilolitres
B. 35 kilolitres
C. 45 kilolitres
D. 50 kilolitres (A)
**Explanation:** The volume is calculated using the cone volume formula, then converted to kilolitres.

**7. The slant height of a cone with radius 4 cm and volume 188 $cm^3$ is:**
A. 9 cm
B. 8 cm
C. 7 cm
D. 6 cm (A)
**Explanation:** Using volume formula to calculate slant height.

**8. A conical tank has a radius of 7 m and a height of 24 m. Its volume is:**
A. 924 $m^3$
B. 1045 $m^3$
C. 1234 $m^3$
D. 892 $m^3$ (A)
**Explanation:** Volume = $(1/3)\pi r^2 h$, calculate using the given radius and height.

**9. A conical tent has a height of 10 m and radius 6 m. The volume of the tent is:**
A. 200 $m^3$
B. 400 $m^3$
C. 600 $m^3$
D. 800 $m^3$ (B)
**Explanation:** Volume = $(1/3)\pi r^2 h$, using the given dimensions.

**10. The volume of a conical tank with height 8 cm and radius 4 cm is:**
A. 134.4 $cm^3$
B. 150.8 $cm^3$
C. 200.5 $cm^3$
D. 250 $cm^3$ (A)
**Explanation:** Using the cone volume formula, the volume is 134.4 $cm^3$.