

Chapter-13: Solid Geometry

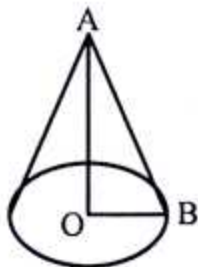
259. The height of a pyramid is h , if the internal circle of land/base is r , what would be slant height?

- (a) $\sqrt{h^2 + r^2}$
 (b) $\sqrt{r^2 - h^2}$
 (c) $\sqrt{h^2 - r^2}$
 (d) $h^2 + r^2$

260. If a sphere with 3cm radius is melted and made a cylinder with 6 cm diameter, what would be its height?

- (a) 4 (b) 6
 (c) 8 (d) 12

261.



Here, $OB = 3$, $OA = 5$ units. What is the area?

- (a) 12π (b) 15π
 (c) 24π (d) 48π

262. What is the dimension of $\overset{\circ}{A}$?

- (a) 0 (b) 1 (c) 2 (d) 3

263. A ————— B In the figure how many dimension has AB?

- (a) 0 (b) 1
 (c) 2 (d) 3

264. How many edges are there in a brick?

- (a) 6 (b) 8
 (c) 10 (d) 12

265. How many surfaces are there in a rectangular cubic object?

- (a) 2 (b) 4 (c) 6 (d) 8

266. If the dimensions of a rectangular cubic object is 5, 4 and 3 unit. What would be the area of its total surface?

- (a) 25 (b) 49
 (c) 94 (d) 152

267. What shape are the surfaces of a cube?

- (a) Square (b) Rhombus
 (c) Rectangular (d) Hexagonal

268. If the diagonal of a cube is $10\sqrt{3}$, the volume = what?

- (a) 10 (b) 20
 (c) 100 (d) 1000

269. What type of prism is rectangular cubic object?

- (a) triangular (b) oblique
 (c) scalene (d) equilateral

270. How many equilateral triangles are there in an equable tetragon?

- (a) 3 (b) 4
 (c) 2 (d) 6

271. A pyramid with a circular base has height of 14cm and the radius of base is 12cm. What will be the slant height?

- (a) 12 (b) 13.45
 (c) 15.23 (d) 16.12

272. If the radius of a sphere is r . What would be its area of surface?

- (a) πr^2 (b) $2\pi r h$
 (c) $4\pi r^2$ (d) $\frac{4}{3}\pi r^3$

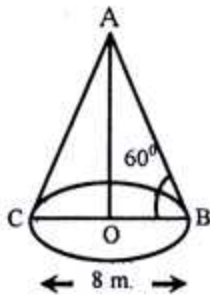
273. What is the volume of a sphere with radius of $\sqrt[3]{3}$ cm.

- (a) 2π (b) 4π
 (c) $4\pi\sqrt{3}$ (d) 36π

274. Which one represents the area of pyramid?

- (a) $\frac{1}{3} \pi r^2 h$ (b) $\pi r^2 h$
 (c) $\frac{4}{3} \pi r^3$ (d) $\pi r (1 + r)$

275.



What is the measurement of the gap space inside the tent?

- (a) 201.1 (b) 536.17
 (c) 672.33 (d) 804.25

276. In general meaning—

- i. π is an irrational number
 ii. approximately $\pi = 3.14159$
 iii. π is English year

Which one is correct?

- (a) i (b) ii
 (c) i & ii (d) i & iii

277. The pyramid with 3cm height and 3cm diameter of base has—

- i. slant height of $\sqrt{13}$ cm.
 ii. area of base 16π cm².
 iii. Area of curved surface $2\sqrt{13}\pi$ cm².

Which one is correct?

- (a) i (b) ii
 (c) i & iii (d) ii & iii

Read the stimuli and answer question no. 278–279 :

The lengths of the bases of a triangular prism are 6 cm. and 10 cm and height is 12 cm.

278. What is the surface area of the prism?

- (a) 12cm² (b) 24cm²
 (c) 30cm² (d) 40cm²

279. What is the volume of the prism?

- (a) 288cm³ (b) 576cm³
 (c) 720cm³ (d) 960cm³

Read the stimuli and answer question no (280 – 281)

A cylinder ball of 2cm. radius exactly fits in a cylinder shaped box.

280. What is the volume of the cylinder?

- (a) 2π (b) 4π (c) 8π (d) 16π

281. What is the volume of the empty space of the cylinder?

- (a) $\frac{\pi}{3}$ (b) $\frac{4\pi}{3}$
 (c) $\frac{6\pi}{3}$ (d) $\frac{16\pi}{3}$

A cylinder and a sphere both has same radius 3cm. and the cylinder is 3cm high.

Read the stimuli and answer 282, 283 questions:

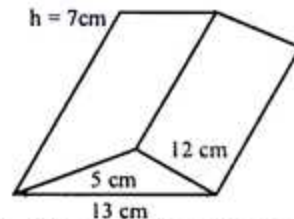
282. What is the area of the curved surface?

- (a) 8π cm². (b) 12π cm².
 (c) 16π cm². (d) 24π cm².

283. What is the volume of the sphere?

- (a) 9π cm³. (b) 18π cm³.
 (c) 36π cm³. (d) 72π cm³.

Follow the figure and answer 284, 285 no question:



284. What is the surface area of the prism?

- (a) 25 cm². (b) 30 cm².
 (c) 40 cm². (d) 45 cm².

285. What is the volume of the prism?

- (a) 200 cm³ (b) 210 cm³
 (c) 220 cm³ (d) 230 cm³