KINETICS
We Nurture The Future
IIT-JEE | Medical | Foundations

Mensuration

Question 1.
The formula for lateral surface area of cuboid is
(a) 2h (l + b)
(b) 2l (h + b)
(c) 2b (l + h)
(d) 2 (lb + bh + hl)

Answer: (a) 2h (l + b)

Question 2.
The cost of papering the wall of a room, 12 m long, at the rate of Rs. 1.35 per square meter is Rs. 340.20. The cost of matting the floor at Re. 0.85 per square metre is Rs. 91.80. Find the height of the room.
(a) 12 m
(b) 8 m
(c) 6 m
(d) 10 m

Answer: (c) 6 m

Question 3.
Surface area of a cuboid = _____
(a) 2 h (l + b)
(b) 2lbh
(c) 2(lb + bh + hl)
(d) None of these

Answer: (c) 2(lb + bh + hl)

Question 4.
The length of parallel sides of trapezium is 14 cm and 6 cm and its height is 5 cm. Its area will be
(a) 50 cm^2

(b) 100 cm^2
(c) 210 cm^2
(d) 10 cm^2

Answer: (a) 50 cm^2

Question 5.
Two dimensional figure is a
(a) solid figure
(b) plane figure
(c) cylinder figure
(d) None of these

Answer: (b) plane figure

Question 6.
A rectangular paper of width 7 cm is rolled along its width and a cylinder of radius 20 cm is formed. Find the volume of the cylinder.
(a) 8800 cm^3
(b) 8800 cm
(c) 8800 cm^2
(d) none of these

Answer: (a) 8800 cm^3

Question 7.
The formula for finding lateral surface area of cylinder is
(a) $2\pi rh$
(b) πr^2
(c) $2\pi r(r+h)$
(d) $2\pi r$

Answer: (a) $2\pi rh$

Question 8.
Which of the following is an example of two dimensions
(a) cuboid
(b) cone

(c) sphere
(d) circle

Answer: (d) circle

Question 9.
Find the volume of a cuboid whose length is 8 cm, breadth 6 cm and height 3.5 cm.
(a) 168 cm^2
(b) 168 cm^3
(c) 215 cm^3
(d) 150 cm^3

Answer: (b) 168 cm^3

Question 10.
In a quadrilateral, half of the product of the sum of the lengths of parallel sides and the parallel distance between them gives the area of
(a) rectangle
(b) parallelogram
(c) triangle
(d) trapezium

Answer: (d) trapezium

Question 11.
Diagonals of rhombus are
(a) equal
(b) half of one diagonal
(c) of different length
(d) none of above

Answer: (c) of different length

Question 12.
The area of four walls of the room is
(a) 2 (lb + bh + hl)
(b) 2l (h + b)
(c) 2 (lb × bh × hl)
(d) 2h (l + b)

Answer: (d) 2h (l + b)

Question 13.
Find the height of cuboid whose volume is 490 cm^3 and base area is 35 cm^3.
(a) 12 cm
(b) 14 cm
(c) 10 cm
(d) 16 cm

Answer: (b) 14 cm

Question 14.
The amount of space occupied by a three dimensional objects is called its
(a) area
(b) surface area
(c) volume
(d) lateral surface area

Answer: (c) volume

Question 15.
A cylindrical tank has a capacity of 5632 m^3. If the diameter of its base is 16 m, find its depth.
(a) 66m
(b) 30 m
(c) 26 m
(d) 28 m

Answer: (d) 28 m

Question 16.
Find the total surface area of a cube whose volume is 343 cm^3.
(a) 350 cm^2
(b) 294 cm^2
(c) 494 cm^2
(d) 200 cm^2

Answer: (b) 294 cm^2

Question 17.
Solid figures are
(a) 2 D
(b) 3 D
(c) 1 D
(d) 4 D

Answer: (b) 3 D

Question 18.
The area of a trapezium is
(a) $\frac{1}{2}$ (sum of parallel sides) × h
(b) 2 (sum of parallel sides) × h
(c) (sum of parallel sides) × h
(d) $\frac{1}{2}$ (sum of parallel sides) + h

Answer: (a) $\frac{1}{2}$ (sum of parallel sides) × h

Question 19.
The formula for finding total surface area of cuboid is
(a) 2 (lb × bh × hl)
(b) 2 (lb + bh + hl)
(c) 2h (l + b)
(d) 2 lb (bh + hl)

Answer: (b) 2 (lb + bh + hl)

Question 20.
Find the volume of a cuboid whose length is 8 cm, breadth 6 cm and height 3.5 cm.
(a) 215 cm^3
(b) 172 cm^3
(c) 150 cm^3
(d) 168 cm^3

Answer: (d) 168 cm^3
