EduSahara™ Learning Center Assignment

Grade : Class IX, ICSE
Chapter : Volume and Surface Area of Solids
Name : Cylinder

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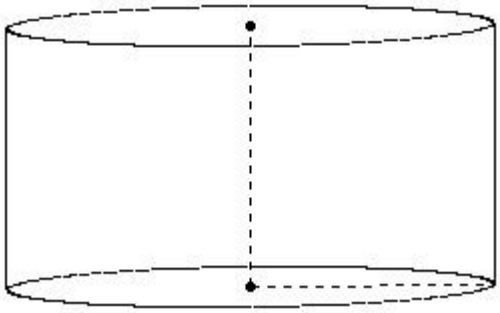
1. If the height of a cylinder is 13.00 cm and L.S.A is 980.57 sq.cm, its radius is



(i) 15.00 cm (ii) 17.00 cm (iii) 12.00 cm (iv) 9.00 cm (v) 7.00 cm

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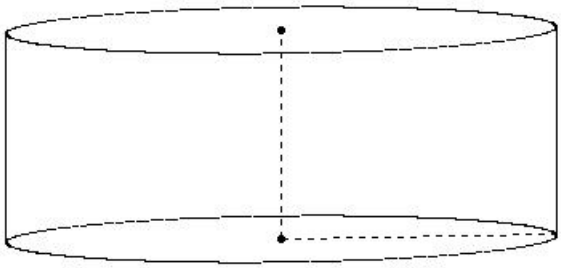
2. If the height of a cylinder is 13.00 cm and L.S.A is 1389.14 sq.cm, its base area is



(i) 890.29 sq.cm (ii) 935.29 sq.cm (iii) 901.29 sq.cm (iv) 908.29 sq.cm (v) 923.29 sq.cm

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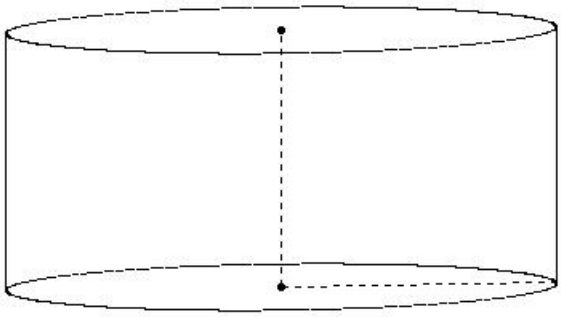
3. If the height of a cylinder is 16.00 cm and L.S.A is 1709.71 sq.cm, its T.S.A is



(i) 3526.29 sq.cm (ii) 3676.29 sq.cm (iii) 3396.29 sq.cm (iv) 3656.29 sq.cm (v) 3466.29 sq.cm

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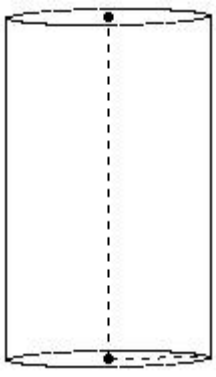
4. If the height of a cylinder is 17.00 cm and L.S.A is 534.29 sq.cm, its volume is



(i) 1285.71 cu.cm (ii) 1565.71 cu.cm (iii) 1335.71 cu.cm (iv) 1505.71 cu.cm (v) 1095.71 cu.cm

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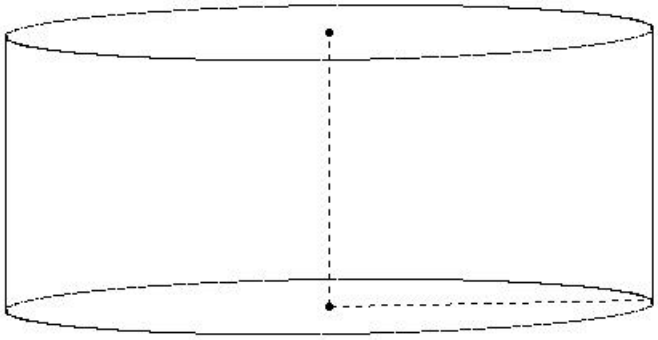
5. If the height of a cylinder is 17.00 cm and T.S.A is 4651.43 sq.cm, its radius is



(i) 17.00 cm (ii) 15.00 cm (iii) 25.00 cm (iv) 23.00 cm (v) 20.00 cm

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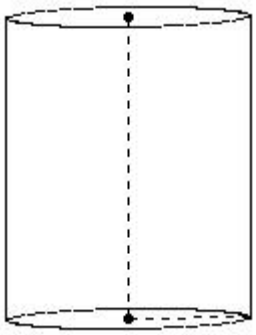
6. If the height of a cylinder is 15.00 cm and T.S.A is 792.00 sq.cm, its base area is



(i) 130.14 sq.cm (ii) 113.14 sq.cm (iii) 125.14 sq.cm (iv) 97.14 sq.cm (v) 89.14 sq.cm

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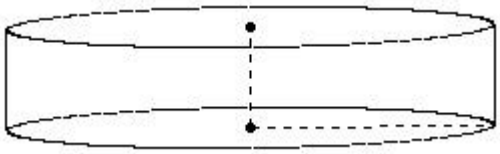
7. If the height of a cylinder is 5.00 cm and T.S.A is 1282.29 sq.cm, its L.S.A. is



(i) 360.14 sq.cm (ii) 377.14 sq.cm (iii) 391.14 sq.cm (iv) 359.14 sq.cm (v) 382.14 sq.cm

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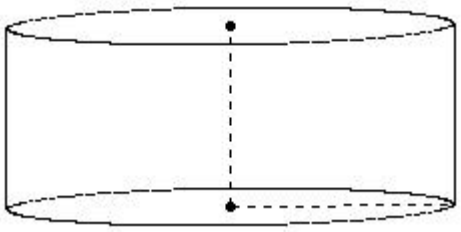
8. If the height of a cylinder is 9.00 cm and T.S.A is 1382.86 sq.cm, its volume is



(i) 3492.57 cu.cm (ii) 3562.57 cu.cm (iii) 3422.57 cu.cm (iv) 3152.57 cu.cm (v) 3282.57 cu.cm

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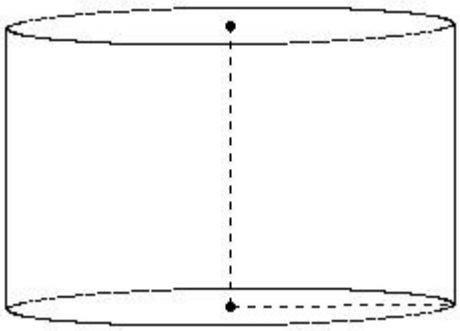
9. If the height of a cylinder is 14.00 cm and volume is 5324.00 cu.cm, its radius is



(i) 8.00 cm (ii) 6.00 cm (iii) 16.00 cm (iv) 14.00 cm (v) 11.00 cm

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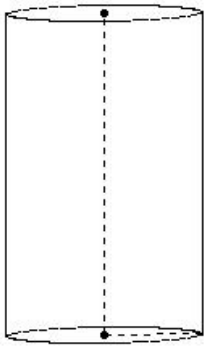
10. If the height of a cylinder is 20.00 cm and volume is 2262.86 cu.cm, its base area is



(i) 113.14 sq.cm (ii) 111.14 sq.cm (iii) 120.14 sq.cm (iv) 88.14 sq.cm (v) 139.14 sq.cm

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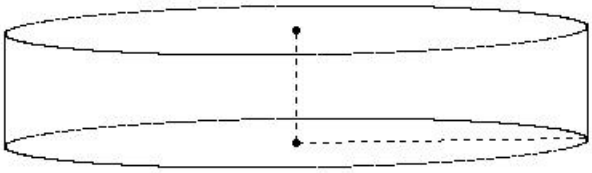
11. If the height of a cylinder is 7.00 cm and volume is 7128.00 cu.cm, its L.S.A. is



(i) 765.00 sq.cm (ii) 818.00 sq.cm (iii) 792.00 sq.cm (iv) 807.00 sq.cm (v) 779.00 sq.cm

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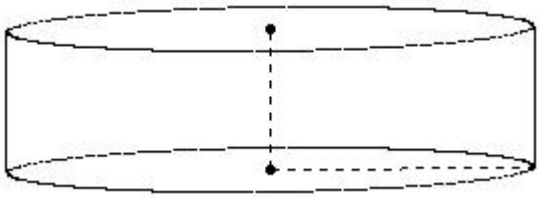
12. If the height of a cylinder is 7.00 cm and volume is 3718.00 cu.cm, its T.S.A is



(i) 1794.29 sq.cm (ii) 1634.29 sq.cm (iii) 1474.29 sq.cm (iv) 1704.29 sq.cm (v) 1484.29 sq.cm

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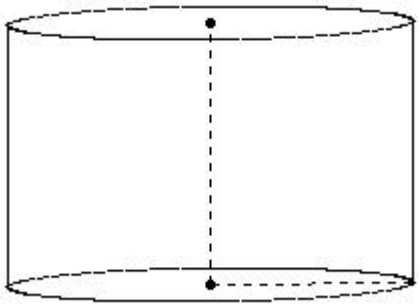
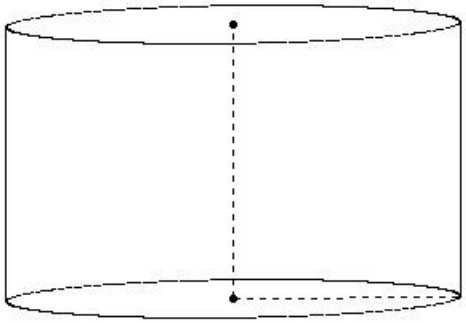
13. If the radius of a cylinder is 10.00 cm and height is 13.00 cm, its base area is



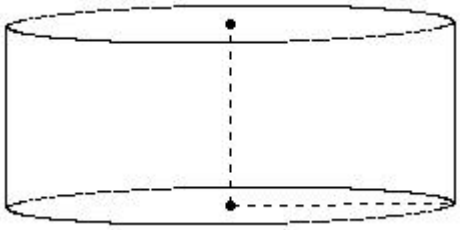
(i) 289.29 sq.cm (ii) 314.29 sq.cm (iii) 340.29 sq.cm (iv) 297.29 sq.cm (v) 320.29 sq.cm

14. If the radius of a cylinder is 14.00 cm and height is 17.00 cm, its L.S.A. is



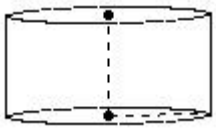
(i) 1676.00 sq.cm (ii) 1226.00 sq.cm (iii) 1426.00 sq.cm (iv) 1496.00 sq.cm

15. If the radius of a cylinder is 11.00 cm and height is 9.00 cm, its T.S.A is



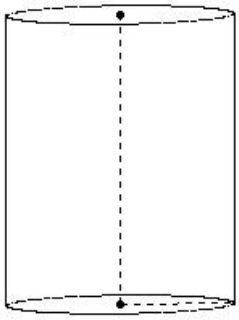
(i) 1162.86 sq.cm (ii) 1382.86 sq.cm (iii) 1332.86 sq.cm (iv) 1522.86 sq.cm (v) 1652.86 sq.cm

16. If the radius of a cylinder is 5.00 cm and height is 5.00 cm, its volume is



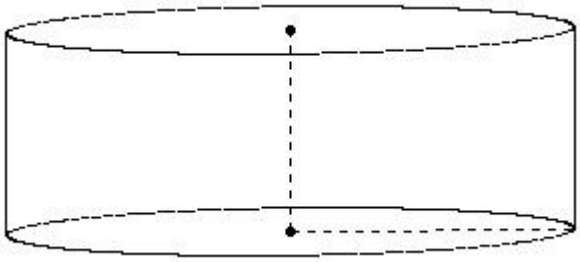
(i) 392.86 cu.cm (ii) 405.86 cu.cm (iii) 399.86 cu.cm (iv) 376.86 cu.cm (v) 380.86 cu.cm

17. If the radius of a cylinder is 7.00 cm and L.S.A is 792.00 sq.cm, its height is



(i) 21.00 cm (ii) 18.00 cm (iii) 13.00 cm (iv) 23.00 cm (v) 15.00 cm

18. If the radius of a cylinder is 14.00 cm and L.S.A is 880.00 sq.cm, its base area is



(i) (ii) (iii) (iv) (v)

638.00 sq.cm 621.00 sq.cm 604.00 sq.cm 610.00 sq.cm 616.00 sq.cm

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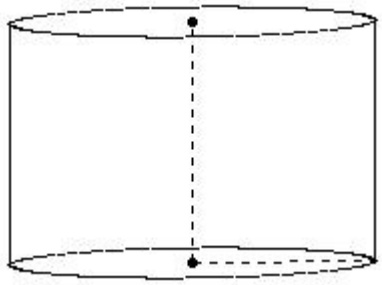
19. If the radius of a cylinder is 9.00 cm and L.S.A is 678.86 sq.cm, its T.S.A is



(i) 1428.00 sq.cm (ii) 1188.00 sq.cm (iii) 1058.00 sq.cm (iv) 1358.00 sq.cm (v) 1008.00 sq.cm

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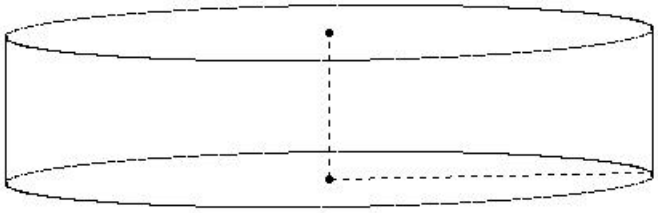
20. If the radius of a cylinder is 20.00 cm and L.S.A is 1131.43 sq.cm, its volume is



(i) 11314.29 cu.cm (ii) 8514.29 cu.cm (iii) 10514.29 cu.cm (iv) 12714.29 cu.cm (v) 12614.29 cu.cm

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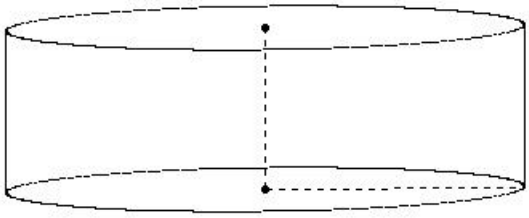
21. If the radius of a cylinder is 16.00 cm and T.S.A is 2614.86 sq.cm, its height is



(i) 15.00 cm (ii) 5.00 cm (iii) 13.00 cm (iv) 10.00 cm (v) 7.00 cm

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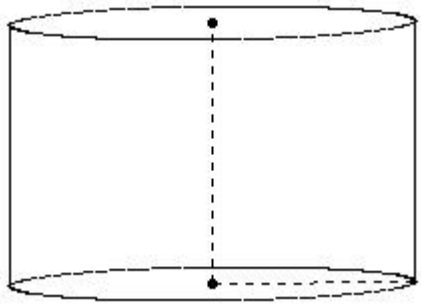
22. If the radius of a cylinder is 10.00 cm and T.S.A is 1445.71 sq.cm, its base area is



(i) 326.29 sq.cm (ii) 318.29 sq.cm (iii) 297.29 sq.cm (iv) 314.29 sq.cm (v) 298.29 sq.cm

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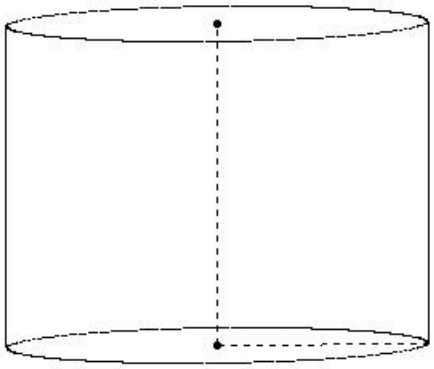
23. If the radius of a cylinder is 13.00 cm and T.S.A is 2696.57 sq.cm, its L.S.A. is



(i) 1554.29 sq.cm (ii) 1784.29 sq.cm (iii) 1634.29 sq.cm (iv) 1764.29 sq.cm (v) 1494.29 sq.cm

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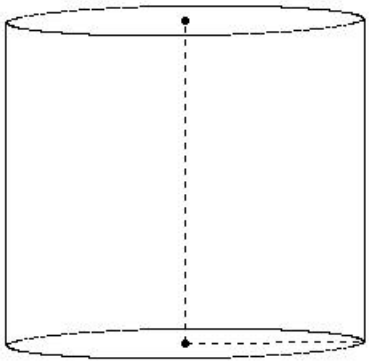
24. If the radius of a cylinder is 11.00 cm and T.S.A is 2143.43 sq.cm, its volume is



(i) 7585.71 cu.cm (ii) 7605.71 cu.cm (iii) 7865.71 cu.cm (iv) 7455.71 cu.cm (v) 7675.71 cu.cm

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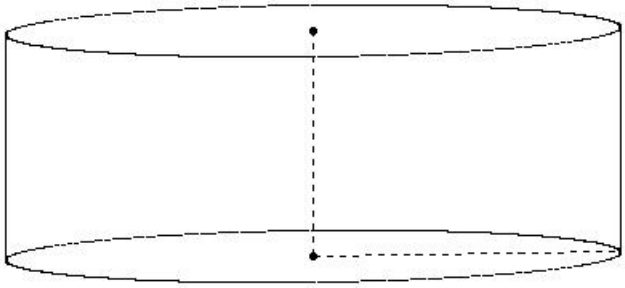
25. If the radius of a cylinder is 19.00 cm and volume is 15884.00 cu.cm, its height is



(i) 9.00 cm (ii) 17.00 cm (iii) 19.00 cm (iv) 11.00 cm (v) 14.00 cm

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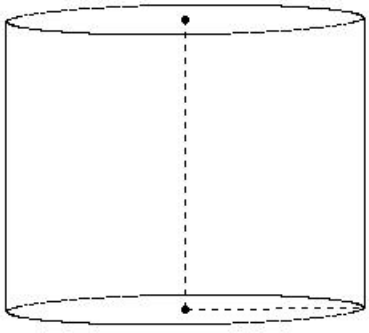
26. If the radius of a cylinder is 11.00 cm and volume is 6845.14 cu.cm, its base area is



(i) 380.29 sq.cm (ii) 392.29 sq.cm (iii) 352.29 sq.cm (iv) 403.29 sq.cm (v) 364.29 sq.cm

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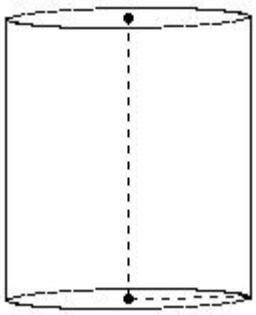
27. If the radius of a cylinder is 6.00 cm and volume is 1584.00 cu.cm, its L.S.A. is



(i) 528.00 sq.cm (ii) 516.00 sq.cm (iii) 531.00 sq.cm (iv) 544.00 sq.cm (v) 502.00 sq.cm

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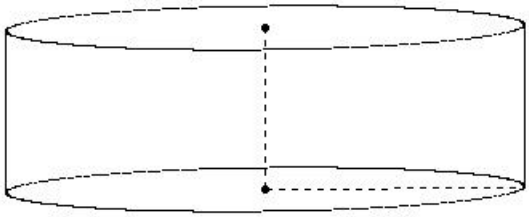
28. If the radius of a cylinder is 16.00 cm and volume is 8045.71 cu.cm, its T.S.A is



(i) 2634.86 sq.cm (ii) 2494.86 sq.cm (iii) 2454.86 sq.cm (iv) 2614.86 sq.cm (v) 2764.86 sq.cm

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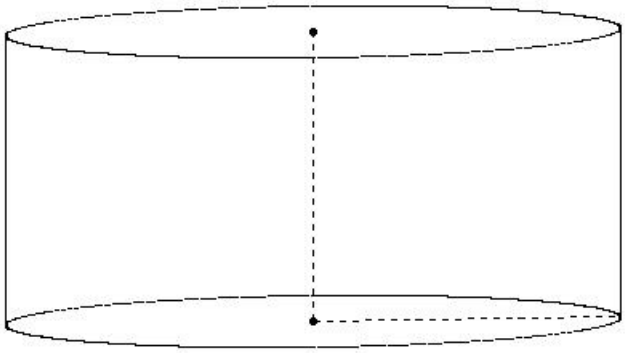
29. If the height of a cylinder is 18.00 cm and base area is 1134.57 sq.cm, its radius is



(i) 19.00 cm (ii) 14.00 cm (iii) 22.00 cm (iv) 24.00 cm (v) 16.00 cm

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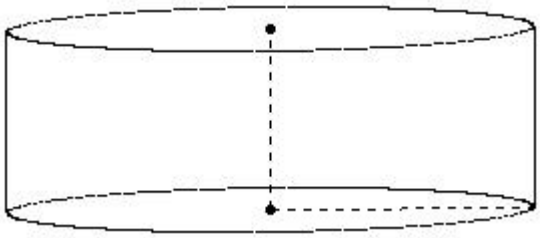
30. If the height of a cylinder is 9.00 cm and base area is 531.14 sq.cm, its L.S.A. is



(i) 757.43 sq.cm (ii) 739.43 sq.cm (iii) 718.43 sq.cm (iv) 735.43 sq.cm

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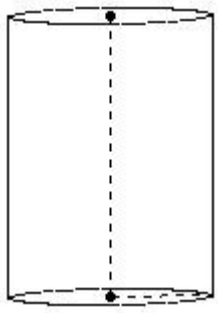
31. If the height of a cylinder is 14.00 cm and base area is 78.57 sq.cm, its T.S.A is



(i) 591.14 sq.cm (ii) 575.14 sq.cm (iii) 611.14 sq.cm (iv) 612.14 sq.cm (v) 597.14 sq.cm

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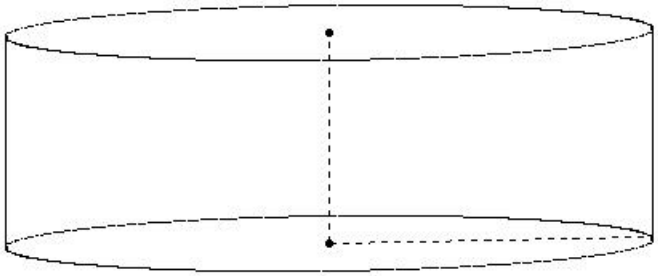
32. If the height of a cylinder is 13.00 cm and base area is 1257.14 sq.cm, its volume is



(i) 14742.86 cu.cm (ii) 14842.86 cu.cm (iii) 16542.86 cu.cm (iv) 16342.86 cu.cm (v) 18642.86 cu.cm

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33. A well of diameter 17.00 mt is dug to a depth of 20.00 mt and the soil from digging is evenly spread out to form a platform of base dimensions 29.00 mt×23.00 mt . Find the height of the platform

(i) 6.81 mt (ii) 7.81 mt (iii) 8.81 mt

(iv) 4.81 mt (v) 5.81 mt

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34. A well of diameter 12.00 mt is dug to a depth of 20.00 mt . The soil taken out of it has been spread evenly all around it in the shape of a circular ring of width 11mt to form an embankment. Find the height of the embankment.

(i) 3.85 mt (ii) 4.85 mt (iii) 0.85 mt

(iv) 2.85 mt (v) 1.85 mt

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35. A copper sphere having a radius of 9.00 cm is melted and drawn into a cylindrical wire of radius 0.30 cm. Calculate the length of the wire.

(i) 123.00 mt (ii) 96.00 mt (iii) 115.00 mt

(iv) 108.00 mt

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36. A copper rod of diameter 1.60 cm and length 18.00 cm is drawn into a wire of length 184.32 mt of uniform thickness. Find the thickness of the wire.

(i) $\frac{3}{40}$ cm (ii) $\frac{1}{10}$ cm (iii) $\frac{1}{20}$ cm

(iv) 0 cm (v) $\frac{1}{40}$ cm

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37. A farmer connects a pipe of internal diameter 100 cm from a canal into a cylindrical tank in his field, which is 20 mt in diameter and 5 mt deep. If water flows through the pipe at the rate of 2 kmph , in how much time will the tank be filled ?

(i) 60.00 min. (ii) 55.00 min. (iii) 63.00 min.

(iv) 65.00 min. (v) 57.00 min.

Assignment Key

1) (iii)
2) (iv)
3) (i)
4) (iii)
5) (v)
6) (ii)
7) (ii)
8) (iii)
9) (v)
10) (i)
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31) (v)
32) (iv)
33) (i)
34) (iv)
35) (iv)
36) (v)
37) (i)