



Name of the Student:

Roll No:

Department & Class:

Time Duration: 20 min

EMPLOYABILITY TEST - 1

I. Choose the correct alternative:

1. What will be the cost of fencing a square field whose side is 20m, If the cost of fencing is Rs.10 per meter? []
1. Rs.200 2. Rs.400 3. Rs.800 4. Rs.4000 5. None of these
2. A wall is of the form of a trapezium with height 4m and parallel sides being 3m and 5m. What is the cost of painting the wall, If the rate of painting is Rs.25 per meter? []
1. Rs.240 2. Rs.400 3. Rs.480 4. Rs.800 5. None of these
3. Length of a rectangle is 1cm more than breadth. If perimeter of the rectangle is 14cm, Find its area? []
1. 14cm^2 2. 15cm^2 3. 16cm^2 4. 12cm^2 5. None of these
4. The perimeter of a square and a circle field are the same. If the area of the circle field is 3850 square meters, What is the area of the square? []
1. 4225 2. 3025 3. 2550 4. 2025 5. None of these
5. A square and a rectangle each has perimeter 48m. Difference between the areas of two figures is 4m^2 . The dimension of the rectangle area are? []
1. 2014 2. 1816 3. 1618 4. 1410 5. None of these
6. The area (in sq.cm) of the largest circle that can be drawn inside a square of the side 28cm? []
1. 17248 2. 784 3. 8624 4. 616 5. None of these
7. What is the area of a right angled isosceles triangle whose hypotenuse is $6\sqrt{2}\text{cm}$? []
1. 12cm^2 2. 18cm^2 3. 24cm^2 4. 36cm^2 5. None of these
8. In a circle of radius 21cm, an arc subtends an angle of 72° at the centre. The length of the arc is []
1. 13.2cm 2. 19.8cm 3. 21.6cm 4. 26.4cm 5. None of these
9. The difference between two parallel sides of a trapezium is 10cm. The length of the perpendicular distance between them is 18cm. The area of the trapezium is 252cm^2 . The larger side is: []
1. 7cm 2. 16cm 3. 19cm 4. 38cm 5. None of these
10. A square and an equilateral triangle are drawn on the same base. The ratio of their areas are: []
1. 2:1 2. 1:1 3. $\sqrt{3}:4$ 4. $4:\sqrt{3}$ 5. None of these
11. If the numerical value of the perimeter of an equilateral triangle is $\sqrt{3}$ times the area of it, then the length of each side of the triangle is []
1. 2unit 2. 3unit 3. 4unit 4. 6unit 5. None of these
12. If the area of the triangle with base 12cm is equal to the area of a square with side 12cm. Then the altitude of the triangle is []
1. 12cm 2. 24cm 3. 18cm 4. 36cm 5. None of these
13. If the perimeter of a semi circle field is 144m, Then the diameter of the field is: []
1. 55m 2. 30m 3. 28m 4. 56m 5. None of these
14. If each side of an equilateral triangle is increased by 2cm, area is increased by $3\sqrt{3}\text{cm}^2$. The length of each side of the original triangle is: []
1. 1cm 2. 2cm 3. 2.5cm 4. 3cm 5. None of these
15. The diameter of a circular wheel is 7cm. How many revolutions will it make in travelling 22km: []
1. 100 2. 400 3. 500 4. 1000 5. None of these



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16.The volume of cuboid is twice the volume of cube.If the dimension of the cuboid are 9cm,8cm,6cm.The total surface area of the cube is:[]

1.72cm² 2.216cm² 3.432cm² 4.108cm² 5.None of these

17.If the volumes of two cubes are in the ratio 27:64,Then the ratio of their total surface areas are:[]

1.27:64 2.3:4 3.9:16 4.3:8 5.None of these

18.If the height of a cone is 24cm and its surface area is 55cm² .Find the volume:[]

1.13200cm² 2.4400cm² 3.616cm² 4.1232cm² 5.None of these

19.The height of two cylinders ,whose volumes are equal, are in the ratio 1:3,their radii will be in the ratio:[]

1.3:1 2.1:3 3.1:√3 4.3:√3 5.None of these

20.Volume of two spheres are in the ratio of 343:8.Find the ratio between their surface areas:[]

1.7:2 2.49:4 3.81:49 4.343:8 5.None of these



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ET4_Key

- 1. Answer:** Option 3
- 2. Answer:** Option 2
- 3. Answer:** Option 4
- 4. Answer:** Option 2
- 5. Answer:** Option 4
- 6. Answer:** Option 4
- 7. Answer:** Option 2
- 8. Answer:** Option 4
- 9. Answer:** Option 3
- 10. Answer:** Option 4
- 11. Answer:** Option 3
- 12. Answer:** Option 2
- 13. Answer:** Option 4
- 14. Answer:** Option 2
- 15. Answer:** Option 4
- 16. Answer:** Option 2
- 17. Answer:** Option 3
- 18. Answer:** Option 4
- 19. Answer:** Option 4
- 20. Answer:** Option 2