

SSC MTS 5 August 2019 (Evening)

- (a)  $\frac{l}{4c}$  (b)  $\frac{l}{c}$  (c)  $\frac{l}{2c}$  (d)  $\frac{2l}{c}$

Q16. There is a path of equal width of 3.5 m along with a building measuring 25 m in length and 15 m in breadth. Find the flooring cost of this path at the rate of Rs. 25.50 per sq. m.

SSC MTS 9 August 2019 (Evening)

- (a) Rs. 8389.50 (b) Rs. 4186.50  
(c) Rs. 8146.50 (d) Rs. 9149.50

Q17. The area of a field in the shape of a hexagon is  $2400\sqrt{3}$  square metre. What will be the cost of fencing it at Rs. 18.50 per metre?

SSC CHSL 1 July 2019 (Evening)

- (a) Rs. 4440 (b) Rs. 5920  
(c) Rs. 5550 (d) Rs. 5180

Q18. The volume of a right circular cone is 924 cubic cm. If its height is 18 cm, then the area of its base (In square cm) is:

SSC CHSL 2 July 2019 (Morning)

- (a) 154 (b) 132  
(c) 176 (d) 198

Q19. The curved surface area and volume of a cylindrical pole are 132 square metres and 528 cubic metres, respectively. What is the height (In m) of the pole? (Take  $\pi = 22/7$ )

SSC CHSL 2 July 2019 (Afternoon)

- (a)  $2\frac{1}{2}$  (b)  $3\frac{5}{8}$  (c)  $3\frac{1}{2}$  (d)  $2\frac{5}{8}$

Q20. The radius of the base of a cylinder is 7 cm and its curved surface area is 440 square cm. Its volume (In cubic cm) will be: (Take  $\pi = 22/7$ )

SSC CHSL 2 July 2019 (Evening)

- (a) 1760 (b) 1430 (c) 1540 (d) 1650

Q21. A circle circumscribes a rectangle whose sides are in the ratio 4 : 3. If the perimeter of the rectangle is 56 cm, then what is the area (In square cm) of the circle?

SSC CHSL 3 July 2019 (Morning)

- (a)  $70\pi$  (b)  $96\pi$  (c)  $90\pi$  (d)  $100\pi$

Q22. A wire is in the shape of a rectangle whose sides are in the ratio 7 : 4. It was initially in the shape of a circle of radius, very nearly equal to 31.5 cm.

The length of smaller side of the rectangle is : (Take  $\pi = 22/7$ )

SSC CHSL 3 July 2019 (Afternoon)

- (a) 44 cm (b) 36 cm  
(c) 40 cm (d) 32 cm

Q23. The length of a rectangular park is 20m more than its breadth. If the cost of fencing the park at Rs. 53 per metre is Rs. 21,200, then what is the area (In square metres) of the park?

SSC CHSL 3 July 2019 (Evening)

- (a) 9504 (b) 8925 (c) 9240 (d) 9900

Q24. The parallel sides of a trapezium are 20 cm and 10 cm and its non-parallel sides are equal to each other. If its area is  $180\text{ cm}^2$ , then what is the length (in cm) of each non parallel side?

SSC CHSL 04 July 2019 (Morning)

- (a) 11 (b) 13 (c) 12 (d) 15

Q25. Diagonals of a rhombus are respectively 4 cm and 12 cm. Its area (in  $\text{cm}^2$ ) is equal to :

SSC CHSL 09 July 2019 (Evening)

- (a) 12 (b) 24 (c) 36 (d) 8

Q26. In triangle ABC, the length of BC is less than twice the length of AB by 2 cm. The length of AC exceeds the length of AB by 10 cm. The perimeter is 32 cm. The length (in cm) of the smallest side of the triangle is :

SSC CHSL 05 July 2019 (Afternoon)

- (a) 4 (b) 10 (c) 8 (d) 6

Q27. If each side of a rectangle is increased by 22%, then its area will increase by :

SSC CHSL 08 July 2019 (Morning)

- (a) 44% (b) 50%  
(c) 46.65% (d) 48.84%

Q28. If each side of a rectangle is decreased by 11%, then its area will decrease by :

SSC CHSL 09 July 2019 (Morning)

- (a) 21.69% (b) 20.79%  
(c) 13.13% (d) 26.78%

Q29. If the length of a rectangle is decreased by 11% and the breadth is increased by 11%, its area will undergo :

SSC CHSL 09 July 2019 (Afternoon)

- (a) 13.13% increase (b) 1.21% increase  
(c) 1.21% decrease (d) 13.13% decrease

Q30. What is the area of a rhombus (in  $\text{cm}^2$ ) whose side is 10 cm and the smallest diagonal is 12 cm?

SSC CHSL 04 July 2019 (Afternoon)

- (a) 120 (b) 192 (c) 96 (d) 50

Q31. Twelve sticks, each of length one unit, are used to form an equilateral triangle. The area of the triangle is :

SSC CHSL 10 July 2019 (Morning)

- (a)  $3\sqrt{3}$  sq units (b)  $2\sqrt{3}$  sq units  
(c)  $4\sqrt{3}$  sq units (d)  $\sqrt{3}$  sq units

Q32. Equilateral triangles are drawn on the hypotenuse and one of the perpendicular sides of a right-angled isosceles triangle. Their areas are H and A respectively.  $\frac{A}{H}$  is equal to :

SSC CHSL 10 July 2019 (Afternoon)

- (a)  $\frac{1}{4}$  (b)  $\frac{1}{2}$  (c)  $\frac{1}{\sqrt{2}}$  (d)  $\frac{1}{2\sqrt{2}}$

Q33. The area of a sector of a circle with central angle  $60^\circ$  is A. The circumference of the circle is C. Then A is equal to :

SSC CHSL 10 July 2019 (Evening)

- (a)  $\frac{c^2}{6\pi}$  (b)  $\frac{c^2}{18\pi}$  (c)  $\frac{c^2}{24\pi}$  (d)  $\frac{c^2}{4\pi}$

Q34. The two diagonals of a rhombus are respectively, 14 cm and 48 cm. The perimeter of the rhombus is equal to :

SSC CHSL 11 July 2019 (Morning)

- (a) 120 cm (b) 160 cm  
(c) 80 cm (d) 100 cm

Q35. The volume of a right circular cone is equal to that of a sphere, whose radius is half the radius of the base of the cone. What is the ratio of the radius of the base to the height of the cone ?

SSC CHSL 11 July 2019 (Afternoon)

- (a) 1:4 (b) 1:2 (c) 4:1 (d) 2:1

Q36. ABCD is a rhombus with each side being equal to 8 cm. If  $BD = 10$  cm,  $AC = 2\sqrt{x}$  cm, what is the value of  $\sqrt{x+10}$  ?

SSC CHSL 11 July 2019 (Afternoon)

- (a)  $2\sqrt{3}$  (b)  $3\sqrt{2}$  (c) 7 (d) 5

Q37. A solid cube of volume  $13824\text{ cm}^3$  is cut into 8 cubes of equal volumes. The ratio of the surface area of the original

cube to the sum of the surface areas of three of the smaller cubes is :

SSC CGL 4 June 2019(Morning)

(a) 2 : 3 (b) 4 : 3 (c) 8 : 3 (d) 2 : 1

Q38. How much iron sheet (in  $m^2$ ) will be needed to construct a rectangular tank measuring  $10 m \times 8 m \times 6 m$ , if a circular opening of radius one metre is to be left at the top of the tank? (correct to one decimal place)

SSC CGL 4 June 2019 (Afternoon)

(a) 371.6 (b) 370.4  
(c) 372.9 (d) 370.8

Q39. The areas of the three adjacent faces of a cuboid are  $32 cm^2$ ,  $24 cm^2$  and  $48 cm^2$ . What is the volume of the cuboid?

SSC CGL 4 June 2019(Evening)

(a)  $192 cm^3$  (b)  $256 cm^3$   
(c)  $288 cm^3$  (d)  $128 cm^3$

Q40. The area of a triangle is 15 sq cm and the radius of its incircle is 3 cm. Its perimeter is equal to:

SSC CGL 4 June 2019(Evening)

(a) 12 cm (b) 20 cm  
(c) 5 cm (d) 10 cm

Q41. The volume of a metallic cylindrical pipe is  $7480 cm^3$ . If its length is 1.4 m and its external radius is 9 cm, then its thickness (given  $\pi = \frac{22}{7}$ ) is:

SSC CGL 6 June 2019 (Morning)

(a) 1 cm (b) 0.8 cm  
(c) 0.9 cm (d) 1.2 cm

Q42. The length of the metallic pipe is 7.56 m. Its external and internal radii are 2.5 cm and 1.5 cm respectively. If 1 cubic cm of the metal weigh 7.5 g, then the weight of the pipe is : ( Take  $\pi = 22/7$ )

SSC CGL 6 June 2019 (Afternoon)

(a) 72.82 kg (b) 70.14 kg  
(c) 71.28 kg (d) 69.68 kg

Q43. A sector is cut out from a circle of diameter 42 cm. If the angle of the sector is  $150^\circ$ , then its area ( in square cm ) is : (Take  $\pi = 22/7$ )

SSC CGL 7 June 2019(Morning)

(a) 564 (b) 574 (c) 580.6 (d) 577.5

Q44. The area of a field in the shape of a triangle with each side x metre is equal to the area of another triangular field having sides 50m , 70m and 80m. The value of x is closest to :

SSC CGL 7 June 2019(Afternoon)

(a) 65.5 (b) 63.2 (c) 62.4 (d) 61.8

Q45. The curved surface area and volume of a cylinder are 264 square cm and 924 cubic cm, respectively. What is the ratio of its radius to height? (Take  $\pi = 22/7$ )

SSC CGL 10 June 2019 (Morning)

(a) 4 : 3 (b) 5 : 4  
(c) 7 : 6 (d) 3 : 2

Q46. The radius of a sphere is reduced by 40%. By what percent, will its volume decrease?

SSC CGL 10 June 2019 (Afternoon)

(a) 60% (b) 64% (c) 72.5% (d) 78.4%

Q47. The radii of two circular faces of the frustum of a cone of height 21 cm are 3 cm and 2 cm respectively. What is the volume of the frustum of the cone in cubic cm? (Take  $\pi = 22/7$ )

SSC CGL 11 June 2019(Morning)

(a) 154 (b) 286 (c) 345 (d) 418

Q48. A sphere of radius 4 cm is melted and recast into smaller spheres of radii 2 cm each. How many such spheres can be made?

SSC CGL 12 June 2019(Evening)

(a) 4 (b) 8 (c) 32 (d) 16

Q49. Six cubes, each of edge 2 cm, are joined end to end. What is the total surface area of the resulting cuboid in  $cm^2$ ?

SSC CGL 13 June 2019(Morning)

(a) 96 (b) 144 (c) 104 (d) 128

Q50. The radii of three concentric circles are in the ratio of 4:5:7. What is the ratio of the area between the two inner circles to that between the two outer circles ?

SSC CGL 6 June 2019(Evening)

(a) 4:7 (b) 5:9 (c) 4:5 (d) 3:8

Q51. The area of parallelogram is  $338 m^2$ . If its altitude is twice the corresponding base, its base is:

SSC CPO 16 March 2019 (Morning)

(a) 13 (b) 14 (c) 26 (d) 28

Q52. The base of an isosceles triangle is 6 cm and its perimeter is 16 cm. Its area is

SSC CPO 16 March 2019 (Morning)

(a)  $9 cm^2$  (b)  $11 cm^2$   
(c)  $10 cm^2$  (d)  $12 cm^2$

Q53. Find the inner surface area of all walls of a rectangular room with length 7 m breadth 5 m and height 3.5 m

SSC CPO 16 March 2019 (Morning)

(a)  $84 m^2$  (b)  $168 m^2$   
(c)  $126 m^2$  (d)  $42 m^2$

Q54. A square cardboard with side 3 m is folded through one of its diagonal to make a triangle, the height of the triangle is:

SSC CPO 16 March 2019 (Morning)

(a)  $\frac{3}{\sqrt{2}}$  m (b)  $2\sqrt{3}$  m  
(c)  $3\sqrt{2}$  m (d)  $\frac{2}{\sqrt{3}}$  m

Q55. The surface area of a cube is  $1176 cm^2$  Its volume is:

एक घन का पृष्ठीय क्षेत्रफल  $1176 cm^2$

SSC CPO 16 March 2019 (Morning)

(a)  $3486 cm^3$  (b)  $3964 cm^3$   
(c)  $3206 cm^3$  (d)  $2744 cm^3$

Q56. The liquid in a container is sufficient to paint an area of  $11.28 m^2$ . How many boxes of dimension  $30cm \times 25cm \times 12cm$  can be painted with the liquid in this container.

SSC CPO 16 March 2019 (Morning)

(a) 40 (b) 24 (c) 32 (d) 12

Q57. The radius of a cylinder is increased by 120% and its height is decreased by 40%. What is the percentage increase in its volume?

SSC CPO 12 March 2019(Evening)

(a) 180.6% (b) 212.8%  
(c) 190.4% (d) 175.4%

Q58. The sides of a triangle are 8 cm, 15 cm, and 17 cm respectively. At each of its vertices, a circle of radius 3.5 cm is drawn. What is the area of the triangle excluding the portion covered by the sectors of the circle ?  $\pi = \frac{22}{7}$  एक SSC

CPO 12 March 2019 (Evening)

- (a)  $23.5 \text{ cm}^2$  (b)  $21.5 \text{ cm}^2$   
 (c)  $47 \text{ cm}^2$  (d)  $40.75 \text{ cm}^2$

Q59. The sides of a triangle are 24cm, 45cm and 51cm. At each of its vertices, circles of radius 10.5cm are drawn. What is the area of the triangle, excluding the portion covered by sectors of the circles? ( $\pi = \frac{22}{7}$ )

- SSC CPO 13 March 2019 (Evening)  
 (a)  $244.75 \text{ cm}^2$  (b)  $366.75 \text{ cm}^2$   
 (c)  $464.75 \text{ cm}^2$  (d)  $327.75 \text{ cm}^2$

Q60. The radius of a cylinder is increased by 150% and its height is decreased by 20%. What is the percentage increase in its volume?

- SSC CPO 12 March 2019 (Morning)  
 (a) 400% (b) 600%  
 (c) 500% (d) 80%

Q61. The area of each square of a chessboard having 64 squares is  $4 \text{ cm}^2$ . If there is a border on all the sides of the chessboard of 2 cm, then the perimeter of the chessboard is:

- SSC CPO 14 March 2019 (Morning)  
 (a) 128 cm (b) 80 cm  
 (c) 70 cm (d) 256 cm

Q62. The length of diagonal of a square whose area is  $64 \text{ m}^2$  is:

- SSC CPO 14 March 2019 (Morning)  
 (a)  $4\sqrt{2} \text{ m}$  (b)  $8\sqrt{2} \text{ m}$  (c) 4 m (d) 8 m

Q63. The unequal side of an isosceles triangle is 2cm. The medians drawn to the equal sides are perpendicular. The area of the triangle is:

- SSC CPO 16 March 2019 (Evening)  
 (a)  $2 \text{ cm}^2$  (b)  $3 \text{ cm}^2$   
 (c)  $5 \text{ cm}^2$  (d)  $1 \text{ cm}^2$

Q64. What will be total cost of polishing curved surface of a wooden cylinder at rate of Rs 20 per  $\text{m}^2$ , if its diameter is 40 cm and height is 7m?

- SSC CPO 16 March 2019 (Evening)  
 (a) 176 rs (b) 184 rs  
 (c) 175 rs (d) 186 rs

Q65. A steel vessel has a base of length 60 cm and breadth 30 cm. Water is poured in the vessel. A cubical steel box having edge of 30 cm is immersed

completely in the vessel. By how much will the water rise?

- SSC CPO 16 March 2019 (Evening)  
 (a) 12 cm (b) 15 cm  
 (c) 10 cm (d) 9 cm

Q66. The perimeter of a square is equal to the perimeter of a rectangle of length 16cm and breadth 14 cm. Find the circumference of a semicircle whose diameter is equal to the side of the square.

- SSC CPO 16 March 2019 (Evening)  
 (a) 38.57 cm (b) 21.57 cm  
 (c) 23.57 cm (d) 25.57 cm

Q67. Original breadth of a rectangular box is 20cm. The box was then remade in such a way that its length increased by 30% but the breadth decreased by 20% and the area increased by  $100 \text{ cm}^2$ . What is the new area of the box?

- SSC CPO 16 March 2019 (Evening)  
 (a)  $2500 \text{ cm}^2$  (b)  $2200 \text{ cm}^2$   
 (c)  $2600 \text{ cm}^2$  (d)  $2400 \text{ cm}^2$

Q68. 12 buckets of water fill a tank when the capacity of each bucket is 13.5 litres. How many buckets will be needed to fill the same tank, if the capacity of each bucket is 9 litres?

- SSC CPO 16 March 2019 (Evening)  
 (a) 15 (b) 16 (c) 18 (d) 17

Q69. If the height of an equilateral triangle is  $10\sqrt{3} \text{ cm}$ , the area is:

- SSC CPO 15 March 2019 (Morning)  
 (a)  $124\sqrt{3} \text{ cm}^2$  (b)  $75\sqrt{3} \text{ cm}^2$   
 (c)  $80\sqrt{3} \text{ cm}^2$  (d)  $100\sqrt{3} \text{ cm}^2$

Q70. A tall rectangular vessel is half filled with water. The base dimension of the vessel is  $62 \text{ cm} \times 45 \text{ cm}$ . A heavy metal cube of edge 15 cm is dropped into the vessel. The rise in level of the vessel is:

- SSC CPO 15 March 2019 (Morning)  
 (a) 1.21 cm (b) 1.15 cm  
 (c) 1.07 cm (d) 1 cm

Q71. The dimensions of a swimming pool are  $66 \text{ m} \times 35 \text{ m} \times 3 \text{ m}$ . How many hours will it take to fill the pool by a pipe of diameter 35 cm with water flowing at speed 8m/s?

- SSC CPO 15 March 2019 (Morning)  
 (a) 2.75 h (b) 3.5 h  
 (c) 2.5 h (d) 3.2 h

Q72. Find the cost of carpeting a room which is 11m long and 6m broad by a carpet which is 60cm broad at the rate of rs 112.50 per meter.

- SSC CPO 16 March 2019 (Afternoon)  
 (a) 12,375 (b) 13,280  
 (c) 11,695 (d) 12,040

Q73. A field is  $119 \text{ m} \times 18 \text{ m}$  in dimension. A tank  $17 \text{ m} \times 6 \text{ m} \times 3 \text{ m}$  is dug out in the middle and the soil removed is evenly spread over the remaining part of the field. The increase in the level on the remaining part of the field is:

- SSC CPO 16 March 2019 (Afternoon)  
 (a) 14cm (b) 13cm (c) 15cm (d) 12cm

Q74. A swimming pool is 40 m in length, 30 m in breadth and 2.2 m in depth. The cost of cementing its floor and the four sides at Rs.  $25/\text{m}^2$  is:

- SSC CPO 16 March 2019 (Afternoon)  
 (a) Rs. 43,980 (b) Rs. 37,540  
 (c) Rs. 34,260 (d) Rs. 37,700

Q75. If the area of a regular hexagon is  $108\sqrt{3} \text{ cm}^2$ , its perimeter is:

- SSC CPO 15 March 2019 (Evening)  
 (a)  $36\sqrt{2} \text{ cm}$  (b)  $42\sqrt{3} \text{ cm}$   
 (c)  $28\sqrt{3} \text{ cm}$  (d) 24 cm

Q76. A square piece of cardboard with side 12 cm has a small square of 2 cm cut out from each of the corners. The resulting flaps are turned up to make a box 2 cm deep. The volume of the box is:

- SSC CPO 15 March 2019 (Evening)  
 (a)  $128 \text{ cm}^3$  (b)  $94 \text{ cm}^3$   
 (c)  $102 \text{ cm}^3$  (d)  $11 \text{ cm}^3$

Q77. The area of a right angled triangle having base 24 cm and hypotenuse 25 cm is:

- SSC CPO 15 March 2019 (Evening)  
 (a)  $72 \text{ cm}^2$  (b)  $108 \text{ cm}^2$   
 (c)  $92 \text{ cm}^2$  (d)  $84 \text{ cm}^2$

Q78. The length of the longest pole that can be placed in a room 16 m long, 8 m wide and 11 m high is:

- SSC CPO 15 March 2019 (Evening)

- (a) 21 m (b) 20 m  
(c) 18 m (d) 19 m

Q79. A diagonal of a quadrilateral is 40 cm. The length of the perpendicular to the opposite ends is 7.5 cm and 8.6 cm. What is the area of quadrilateral ?

SSC CPO 14 March 2019 (Evening)

- (a) 434  $cm^2$  (b) 322  $cm^2$   
(c) 368  $cm^2$  (d) 28  $cm^2$

Q80. Which of the following has the maximum number of vertex?

SSC CPO 14 March 2019 (Evening)

- (a) Cuboid (b) Triangular Prism  
(c) Hexagonal pyramid (d) Tetrahedron

Q81. How much volume will the wood need to make a closed box of 2.5cm thickness with outer measurements 90 cm  $\times$  75 cm  $\times$  50 cm ?

SSC CPO 14 March 2019 (Evening)

- (a) 46720  $cm^3$  (b) 69750  $cm^3$   
(c) 49050  $cm^3$  (d) 36170  $cm^3$

## Practice Questions

### SSC CGL 2021

Q.82 Length of each side of a rhombus is 13 cm and one of the diagonals is 24 cm. What is the area (in  $cm^2$ ) of the rhombus?

SSC CGL 13/8/2021 (Morning)

- (a) 240 (b) 60  
(c) 300 (d) 120

Q.83 If length of a rectangle is increased to its three times and breadth is decreased to its half, then the ratio of the area of given rectangle to the area of new rectangle is:

SSC CGL 13/8/2021 (Afternoon)

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

Q.84 What is the area (in  $cm^2$ ) of a circle inscribed in a square of area 784  $cm^2$ ? (Take  $\pi = \frac{22}{7}$ )

SSC CGL 16/8/2021 (Morning)

- (a) 660 (b) 616  
(c) 924 (d) 462

Q.85 A heap of wheat is in the form of a cone whose base diameter is 8.4 m and

height is 1.75 m. The heap is to be covered by canvas. What is the area (in  $m^2$ ) of the canvas required? (Use  $\pi = \frac{22}{7}$ )

SSC CGL 16/8/2021 (Afternoon)

- (a) 60.06 (b) 115.05  
(c) 63.6 (d) 115.5

Q86. The area of the square shaped field is 1764  $m^2$ . The breadth of a rectangular park is 1/3rd the side of the square field and its length is two times its breadth. What is the cost (in Rs.) of levelling the park at Rs.15 per  $m^2$  ?

SSC CGL 16/8/2021 (Evening)

- (a) 4200 (b) 4290 (c) 5880 (d) 4320

Q87. The curved surface area of a cylinder is 462  $cm^2$  and its base area is 346.5  $cm^2$ . What is the volume (in  $cm^3$ ) of the cylinder?

SSC CGL 17/8/2021 (Morning)

- (a) 4800 (b) 2425.5  
(c) 4850 (d) 2400

Q88. What is the volume (in  $cm^3$ ) of a spherical shell whose inner and outer radii are respectively 2 cm and 3 cm?

SSC CGL 17/8/2021 (Afternoon)

- (a)  $\frac{76\pi}{3}$  (b)  $\frac{106\pi}{3}$   
(c)  $\frac{56\pi}{3}$  (d)  $\frac{86\pi}{3}$

Q89. What is the area of the square (in  $cm^2$ ) whose vertices lie on a circle of radius 5 cm?

SSC CGL 17/8/2021 (Evening)

- (a) 100 (b) 80 (c) 50 (d) 75

Q90. The perimeter of a semi-circle is 25.7 cm. What is its diameter (in cm)?

SSC CGL 18-08-2021 (Morning)

- (a) 8 (b) 12 (c) 10 (d) 9

Q91. The area of a quadrant of a circle is  $\frac{\pi}{9} m^2$ . Its radius (in metres) is equal to:

SSC CGL 20/8/2021 (Morning)

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

Q92. The volume of a wall whose height is 10 times its width and whose length is 8 times its height, is 51.2  $m^3$ . What is the cost (in Rs.) of painting the wall on one side at the rate of Rs.100/ $m^2$ ?

SSC CGL 20/8/2021 (Afternoon)

- (a) 12750 (b) 12500  
(c) 12800 (d) 12250

Q93. The area of a triangular plot having sides 12 m, 35 m, and 37 m is equal to the area of a rectangular field whose sides are in the ratio 7 : 3. The perimeter (in m) of the field is:

SSC CGL 20/8/2021 (Evening)

- (a)  $24\sqrt{10}$  (b)  $20\sqrt{10}$   
(c)  $20\sqrt{5}$  (d)  $24\sqrt{5}$

Q.94 The area of a square shaped field is 1764  $cm^2$ . The breadth of a rectangular park is  $\frac{1}{6}$  th of the side of the square field and the length is four times its breadth. What is the cost (in Rs) of levelling the park at 30 per  $m^2$ ?

SSC CGL 23/8/2021 (Morning)

- (a) 5880 (b) 4768 (c) 2940 (d) 6342

Q.95 A square has the perimeter equal to the circumference of a circle having radius 7 cm. What is the ratio of the area of the circle to the area of the square?

(Use  $\Pi = \frac{22}{7}$ )

SSC CGL 23/8/2021 (Afternoon)

- (a) 7 : 2 (b) 14 : 11  
(c) 7 : 11 (d) 121 : 44

Q.96 The area of the circular path enclosed by two concentric circles is 3080  $m^2$ . If the difference between the radius of the outer edge and that of the inner edge of the circular path is 10m, what is the sum (in m) of the two radii?

SSC CGL 23/8/2021 (Afternoon)

- (a) 70 (b) 112 (c) 98 (d) 84

Q.97 The perimeter of a circular lawn is 1232 m. There is 7m wide path around the lawn. The area (in  $m^2$ ) of the path is:

(Take  $\Pi = \frac{22}{7}$ )

SSC CGL 23/8/2021 (Evening)

- (a) 8800 (b) 8756 (c) 8558 (d) 8778

Q.98. The surface area of a cube is 13.5  $m^2$ . What is the length (in m) of its diagonal?

SSC CGL 24/8/2021 (Evening)

- (a)  $2\sqrt{3}$  (b) 1.5 (c) 2 (d)  $1.5\sqrt{3}$

### SSC CHSL 2021