



SSC CGL (Tier - 1) Online Exam Paper - 2016 "held on 8 September 2016" Evening Shift (Quantitative Aptitude)

EXAM DATE : 8-September-2016
EXAM START TIME : 16:15:00
EXAM NAME : SSC Examination 2016

Question 51.



Options:

- 1) 6
- 2) 5
- 3) 2 8
- 4) 3 6

Correct Answer: 5

Question 52. The lengths of diagonals of a rhombus are 24cm and 10cm the perimeter of the rhombus (in cm) is :

Options:

- 1) 52
- 2) 56
- 3) 68
- 4) 72

Correct Answer: 52

Question 53.A dishonest shopkeeper professes to sell goods at his cost price but uses a false weight of 950 gms, for each kilogram. His gain percentage is



Question 54.Ratio of A's age to B's age is 4:3. 'A' will be 26 years old after 6 years. The age of B now is

Options:

1)



2) 12 years

3) 21 years

4) 15 years

Correct Answer: 15 years

Question 55.If the Arithmetic mean of 7, 5, 13, x and 9 is 10, then the value of x is

Options:

1) 10

2) 12

3) 14

4) 16

Correct Answer: 16

Question 56.A man sells an article at 15% profit. If he had sold it for ₹ 6 more, he would have gained 18%. The man bought the article for

Options:

1) 100

2) 150

3) 200

4) 250

Correct Answer: 200

Question 57.A's salary was decreased by 50% and subsequently increased by 50%. How much percent does he lose?

Options:

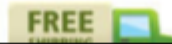
1) 25%

2) 50%



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3)



4) No loss

Correct Answer: 25%

Question 58.A car moving in the morning fog passes a man walking at 4km/h. in the same direction. The man can see the car for 3 minutes and visibility is upto a distance of 130m. The speed of the car is :

Options:

1)



2)



3) 7km/h.

4) 5km/h.

Correct Answer:



Question 59.A money lender lends Rs. 400 for 3 years to a person and lends Rs. 500 for 4 years to the other person at the same rate of simple interest. If altogether he receives Rs. 160 as interest, what is the rate of interest per annum ?

Options:

1) 5%

2) 7%

3) 9%

4) 10%

Correct Answer: 5%

Question 60.If $x = 1/(\sqrt{2}+1)$ then the value of $x^2 + 2x - 1$ is

Options:

1) 2 2

2) 4

3) 0

4) 2

Correct Answer: 0

Question 61.If $x + 1/x = \sqrt{13}$, then $3x/(x^2-1)$ equal to

Options:

- 1) 3 13
- 2) 13/3
- 3) 1
- 4) 3

Correct Answer: 1

Question 62. O is an centre of a circle. P is an external point of it at distance of 13cm from O. The radius of the circle is 5cm. Then the length of a tangent to the circle from P upto the point of contact is

Options:

- 1) 194cm
- 2) 10cm
- 3) 12cm
- 4) 8cm

Correct Answer: 12cm

Question 63. If θ is acute angle and $\sin(\theta+18^\circ) = 1/2$, then the value of θ in circular measure is

Options:

- 1) $\pi/12$ radians
- 2) $\pi/15$ radians
- 3) $2\pi/5$ radians
- 4) $3\pi/13$ radians

Correct Answer: $\pi/15$ radians

Question 64. 18 men or 36 boys working 6 hours a day can plough a field in 24 days. In how many days will 24 men and 24 boys working 9 hours a day plough the same field ?

Options:

- 1) 9
- 2) 10
- 3) 6
- 4) 8

Correct Answer: 8

Question 65. If $a(x + y) = b(x - y) = 2ab$, then the value of $2(x^2 + y^2)$ is

Options:

- 1) $2(a^2 - b^2)$

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- 2) $2(a^2 + b^2)$
- 3) $4(a^2 - b^2)$
- 4) $4(a^2 + b^2)$

Correct Answer: $4(a^2 + b^2)$

Question 66. If $x + 1/x = 6$, then value of $x^2 + 1/x^2$ is

Options:

- 1) 23
- 2) 16
- 3) 34
- 4) 32

Correct Answer: 3

Question 67. G is the centroid of the equilateral triangle ABC, if $AB = 9\text{cm}$ then AG is equal to

Options:

- 1) $3\sqrt{3}\text{cm}$
- 2) 3cm
- 3) $3\sqrt{2}\text{cm}$
- 4) 6cm

Correct Answer: $3\sqrt{3}\text{cm}$

Question 68. In the figure (not drawn to scale) given below, if $AD = DC = BC$ and $\angle BCE = 96^\circ$, then $\angle DBC$ is



Options:

- 1) 32°
- 2) 84°
- 3) 64°
- 4) 96°

Correct Answer: 64°

Question 69. If θ is positive acute angle and $4\sin 2\theta = 3$, then the value of $\tan \theta - \cot \theta/2$ is

Options:

- 1) 1

- 2) 0
- 3) 3
- 4) $1/3$

Correct Answer: 0

Question 70.The chord AB of a circle of centre O subtends an angle θ with the tangent at A to the circle. Then measure of $\angle ABO$ is

Options:

- 1)
- 2) $90^\circ -$
- 3) $90^\circ +$
- 4) $2(180^\circ -)$

Correct Answer: $90^\circ -$

Question 71.From a point on a bridge across the river, the angles of depression of the banks on opposite sides of the river are 30° and 45° respectively. If the bridge is at a height of 2.5m from the banks, then the width of the river is (take $\sqrt{3} = 1.732$)

Options:

- 1) 5.83m
- 2) 6.83m
- 3) 5.76m
- 4) 6.87m

Correct Answer: 6.83m

Question 72.The pie-chart given below show usage of materials in a construction of a house. Study the chart and answers the questions :



The percentage of steel used in the construction of a house

Options:

- 1) 10%
- 2) 12%
- 3) 20%
- 4) 36%

Correct Answer: 10%

Question 73.The pie-chart given below show usage of materials in a construction of a house. Study

the chart and answers the questions :



The ratio of cement and bricks used in the construction is

Options:

- 1) 3:4
- 2) 2:3
- 3) 4:3
- 4) 2:5

Correct Answer: 4:3

Question 74. The pie-chart given below show usage of materials in a construction of a house. Study the chart and answers the questions :



If the cost of cement is 5000/- then the labour cost is

Options:

- 1) 5500
- 2) 6250
- 3) 9000
- 4) 4000

Correct Answer: 6250

Question 75. The pie-chart given below show usage of materials in a construction of a house. Study the chart and answers the questions :



The average of percentages of steel, cement and miscellaneous items used in the construction is

Options:

- 1) 10%
- 2) 25%
- 3) 20%
- 4) 35%

Correct Answer: 20%



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