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

EXAM DATE : 1-September-2016
EXAM START TIME : 10:00:00
EXAM NAME : SSC Examination 2016
51. $A$ and $B$ together can finish a work in 30 days. They worked for it for 20 days and then $B$ left the work. The remaining work was done by A alone in $\mathbf{2 0}$ days more. In how many days can A alone finish the work?

1) 48 days
2) 50 days
3) 54 days
4) 60 days
52. The centroid of an equilateral triangle $A B C$ is $G$. If $A B$ is 6 cms , the length of $A G$ is
1) $\sqrt{ } 3 \mathrm{~cm}$
2) $2 \sqrt{ } 3 \mathrm{~cm}$
3) $3 \sqrt{ } 2 \mathrm{~cm}$
4) $2 \sqrt{ } 2 \mathrm{~cm}$
53. A merchant changed his trade discount from $25 \%$ to $15 \%$. This would increase selling price by
1) $3 \frac{1}{3} \%$
2) $61 / \%$
3) $131 / 3 \%$
4) $16 \frac{1}{3} \%$
54. If 177 is divided into 3 parts in the ratio $1 / 2: 2 / 3: 4 / 5$, then the second part is
1) 75
2) 45
3) 72
4) 60
55. If percentage of profit made,when an article is sold for Rs.78, is twice as when it is sold for Rs.69, the cost price of the article is
1) Rs. 49
2) Rs. 51
3) Rs. 57
4) Rs. 60

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56. The ratio between Ram's age and Rahim's age is $10: 11$. What is the age of Rahim in percentage of Ram's age
57. $109^{1 / 11} \%$
58. 110\%
59. $1111 / 9 \%$
60. 111\%

Question 57.Gautam travels 160 kms at 32 kmph and returns at 40 kmph . Then average speed is

1) 72 kmph
2) 71.11 kmph
3) 36 kmph
4) 35.55 kmph

Question 58.If $x=3 / 2$, then the value of $27 x^{3}-54 x^{2}+36 x-11$ is

1) $113 / 8$
2) $115 / 8$
3) $123 / 8$
4) $125 / 8$

Question 59.If $a+b+c=6$ and $a b+b c+c a=1$, then the value of $b c(b+c)+c a(c+a)+a b(a+b)$
$+3 a b c$ is

1) 33
2) 66
3) 55
4) 23

Question 60 .If the angles of a triangle are in the ratio of 2:3:4, then the difference of the measure of greatest angle and smallest angle is

1) $20^{\circ}$
2) $30^{\circ}$
3) $40^{\circ}$
4) $50^{\circ}$

Question 61.In $\triangle A B C, \angle A=90^{\circ}, A D \perp B C$ and $A D=B D=2 \mathrm{~cm}$. The length of $C D$ is

1) 3 cm
2) 3.5 cm
3) 3.2 cm
4) 2 cm

Question 62.
If $\tan 45^{\circ}=\operatorname{Cot} \theta$, then the value of $\theta$, in radians is

1) $\Pi$
2) $\Pi / 9$
3) $\Pi / 2$
4) $\Pi / 12$

Question $63 .\left(2^{51}+2^{52}+2^{53}+2^{54}+2^{55}\right)$ is divisible by

1) 23
2) 58
3) 124
4) 127

Question 64.The average of 12 numbers is 9 . If each number is multiplied by 2 and added to 3 , the average of the new set of numbers is

1) 9
2) 18
3) 21
4) 27

Question 65.
If $\left(a+\frac{1}{a}\right)^{2}=3$, then the value of $a^{6}-\frac{1}{a^{6}}$ will be

1) 1
2) 3
3) 0
4) 2

Question 66.

$$
\text { If } \frac{\sqrt{2+x}+\sqrt{2-x}}{\sqrt{2+x}-\sqrt{2-x}}=2 \text {, the value of } x \text { is }
$$

1) $4 / 5$
2) $3 / 5$
3) $8 / 5$
4) $1 / 5$

Question 67.The perimeter of two similar triangles ABC and PQR are 36 cms and 24 cms respectively. If $P Q=10 \mathrm{~cm}$ then the length of $A B$ is

1) 18 cm
2) 12 cm
3) 15 cm
4) 30 cm

Question 68.In a triangle $A B C, A B=8 \mathrm{~cm}, A C=10 \mathrm{~cm}$ and $\angle B=90^{\circ}$, then the area of $\triangle A B C$ is

1) $49 \mathrm{sq} . \mathrm{cm}$
2) $36 \mathrm{sq} . \mathrm{cm}$
3) $25 \mathrm{sq} . \mathrm{cm}$
4) $24 \mathrm{sq} . \mathrm{cm}$

Question 69.
$A B C$ is a triangle If $\operatorname{Sin}\left(\frac{A+B}{2}\right)=\frac{\sqrt{3}}{2}$, then the value of $\sin \frac{C}{2}$ is

1. $\frac{1}{\sqrt{2}}$
2. 0
3. $1 / 2$
4. $\frac{\sqrt{3}}{2}$

Question 70.The compound interest on Rs. 64,000 for 3 years, compounded annually at 7.5\% p.a. is

1) Rs. 14,400
2) Rs. 15,705
3) Rs. 15,507
4) Rs. 15,075

Question 71.The angles of elevation of the top of a temple, from the foot and the top a building 30 m high, are $60^{\circ}$ and $30^{\circ}$ respectively. Then height of the temple is

1) 50 m
2) 43 m
3) 40 m
4) 45 m

Question 72.Study the pie-chart given and answer the following questions.


If the miscellaneous charges are Rs. 6000, then the advertisement charges are

1) Rs. 12000
2) Rs. 27000
3) Rs 90000
4) Rs. 25000

Question 73. The central angle of printing charge is x more than that of advertisement charge. Then the value of $x$ is

1) $72^{\circ}$
2) $61.2^{\circ}$
3) $60^{\circ}$
4) $54.8^{\circ}$

Question 74. What should be the central angle of the sector 'cost of paper'?

1) $22.5^{\circ}$
2) $54.8^{\circ}$
3) $36^{\circ}$
4) $16^{\circ}$

Question 75. The ratio between royalty and binder's charges is

1) $5: 6$
2) $5: 8$
3) $6: 5$
4) $8: 13$

## :: Answers ::

51. (4) 52. (2) 53. (3) 54. (4) 55. (4) 56. (2) 57. (4) 58. (4) 59. (2) 60. (3) 61. (4) 62. (2) 63. (3) 64. (3) 65. (3) 66. (3) 67. (3) 68. (4) 69. (3) 70. (3) 71. (4) 72. (2) 73. (2) 74. (3) 75. (1)
