## SSC CGL (Tier - 1) Online Exam Paper - 2016 "held on 28 August 2016" Evening Shift (Quantitative Aptitude)

Question 51.The sum of three consecutive natural numbers each divisible by 5 , is 225 . The largest among them is
Options:

1) 85
2) 75
3) 70
4) 80

Correct Answer: 80
Question 52.A can do a piece of work in 18 days. He worked at it for 12 days and B finished the remaining work in 8 days. $B$ alone can do the whole work in

Options:

1) 16 days
2) 24 days
3) 28 days
4) 29 days

Correct Answer: 24 days
Question 53.The list price of an article is Rs. 900. It is available at two successive discounts of $20 \%$ and $10 \%$. The selling price of the article is:

Options:

1) Rs. 640
2) Rs. 648
3) Rs. 540
4) Rs. 548

Correct Answer: Rs. 648
Question 54.A man spends a part of his monthly income and saves the rest. The ratio of his expenditure to the saving is $61: 6$. If his monthly income is Rs.8710, the amount of his monthly savings is

## Options:

1) Rs. 870
2) Rs. 690
3) $R s .980$
4) Rs. 780

Correct Answer: Rs. 780
Question 55.An article was sold at Rs. 950 allowing 5\% discount on the marked price. The marked price of the article is

Options:

1) Rs. 960
2) Rs. 1000
3) Rs. 955
4) Rs. 945

Correct Answer: Rs. 1000
Question 56.A person loses $75 \%$ of his money in the first bet, $75 \%$ of the remaining in the second and $75 \%$ of the remaining in the third bet and returns home with Rs. 2 only. His initial money was
Options:

1) Rs. 64
2) Rs. 128
3) Rs. 256
4) Rs. 512

Correct Answer: Rs. 128

Question 57.The time taken by a train 160 m long, running at $72 \mathrm{~km} / \mathrm{hr}$, in crossing an electric pole is
Options:

1) 8 sec
2) 9 sec
3) 6 sec
4) 4 sec

Correct Answer: 8 sec

Question 58.
Options:

1) 140
2) 142
3) 144
4) 146

Correct Answer: 142
Question 59.If $a=2, b=-3$ then the value of $27 a^{3}-54 a^{2} b+36 a b^{2}-8 b^{3}$ is Options:

1) 1562
2) 1616
3) 1676
4) 1728

Correct Answer: 1728
Question 60.Possible length of the three sides of a triangle are :-
Options:

1) $2 \mathrm{~cm}, 3 \mathrm{~cm}, 6 \mathrm{~cm}$
2) $3 \mathrm{~cm}, 4 \mathrm{~cm}, 5 \mathrm{~cm}$
3) $2.5 \mathrm{~cm}, 3.5 \mathrm{~cm}, 6 \mathrm{~cm}$
4) $4 \mathrm{~cm}, 4 \mathrm{~cm}, 9 \mathrm{~cm}$

Correct Answer: $3 \mathrm{~cm}, 4 \mathrm{~cm}, 5 \mathrm{~cm}$
Question 61.AD is the Median of $\triangle A B C$. If $O$ is the centroid and $A O=10 \mathrm{~cm}$ then $O D$ is Options:

1) 5 cm
2) 20 cm
3) 10 cm
4) 30 cm

Correct Answer: 5 cm
Question 62.If in a triangle $A B C, \operatorname{Sin} A=\operatorname{Cos} B$ then the value of $\operatorname{Cos} C$ is Options:
1)
$\sqrt{3 / 2}$
2) 0
3) 1
4)
$1 / \sqrt{2}$
Correct Answer: 0
Question 63.Incentre of $\triangle \mathrm{ABC}$ is $\mathrm{I} . \angle \mathrm{ABC}=90^{\circ}$ and $\angle \mathrm{ACB}=70^{\circ}$. $\angle \mathrm{AIC}$ is

Options:

1) $115^{\circ}$
2) $100^{\circ}$
3) $110^{\circ}$
4) $105^{\circ}$

Correct Answer: $110^{\circ}$
Question 64.The length of the two adjacent sides of a rectangle inscribed in a circle are 5 cm and 12 cm respectively. Then the radius of the circle will be
Options:

1) 6 cm
2) 6.5 cm
3) 8 cm
4) 8.5 cm

Correct Answer: 6.5 cm
Question 65. If $\sin \theta x \cos \theta=1 / 2$. The value of $\sin \theta-\cos \theta$ is where $0^{\circ}<\theta<90^{\circ}$
Options:

1) 0
2) $\sqrt{ } 2$
3) 2
4) 1

Correct Answer: 0
Question 66. The mean of 100 observations was calculated as 40 . It was found later on that one of the observations was misread as 83 instead of 53 . The correct mean is:
Options:

1) 39
2) 39.7
3) 40.3
4) 42.7

Correct Answer: 39.7
Question 67.

$$
\text { If } a^{3}+\frac{1}{a^{3}}=2 \text {, then value of } \frac{a^{2}+1}{a} \text { is ( } a \text { is a positive number) }
$$

## Options:

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

Correct Answer: 2

Question 68.

$$
\text { यदि } \times\left(3-\frac{2}{x}\right)=\frac{3}{x} \text {, हो तो } x^{2}+\frac{1}{x^{2}} \text { का मान क्या है ? }
$$

Options:
1)
$31 / 9$
2)
$3^{2} / 9$
3)
$21 / 9$
4)
$24 / 9$

## Correct Answer: 4

Question 69.A sphere of radius 5 cm is melted to form a cone with base of same radius. The height (in cm ) of the cone is

Options:

1) 5
2) 10
3) 20
4) 22

Correct Answer: 20
Question 70.The difference between compound interest and simple interest on a certain sum of money for 2 years at $5 \%$ per annum is Rs. 41 . What is the sum of money?
Options:

1) Rs. 7200
2) Rs. 9600
3) Rs. 16400
4) Rs. 8400

Correct Answer: Rs. 16400
Question 71.A man standing on the bank of river observes that the angle subtended by a tree on the opposite bank is 60 o . When he retires 36 m from the bank, he finds that the angle is 300. The breadth of the river is

Options:

1) 15 m
2) 18 m
3) 16 m
4) 11 m

Correct Answer: 18 m
Study the bar-graph given below which shows the \% distribution of total expenditures of a company under various expense and answer the questions.


Question 72. The expenditures on the interest on loans is more than the expenditures on transport by
Options:

1) $5 \%$
2) $10 \%$
3) $40 \%$
4) $30 \%$

Correct Answer: 40\%
Question 73. If the interest on loans amounted to ₹ 2.45 crores, then the total amount of expenditure on advertisement, taxes and research \& development is:

Options:

1) 7 Crores
2) 4.2 Crores
3) 5.4 Crores
4) 3 Crores

Correct Answer: 4.2 Crores
Question 74. The ratio of the total expenditure on infrastructure and transport to the total expenditure on taxes and interest on loans is:

## Options:

1) $5: 4$
2) $8: 7$
3) $9: 7$
4) $13: 11$

Correct Answer: 13:11
Question 75. If the total expenditure of the company is Rs. 20 crores, then the ratio of expenditure on transport to that on salary is

## Options:

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

Correct Answer: 5:8

