

**SSC CHSL (Tier - 1) Online Exam Paper - 2017 "held on 20
March 2018"**

Afternoon-Shift (Quantitative Aptitude)

QID : 1 - $\frac{9}{15}$ of $\frac{7}{3}$ of a number is greater than $\frac{7}{12}$ of $\frac{3}{5}$ of the same number by 7. Find the twice of the number.

Options:

- 1) 6.36
- 2) 6.67
- 3) 5.67
- 4) 5.36

Correct Answer: No Correct Answer (Benefit to all)

QID : 2 - The addition of a rational number and its reciprocal is $\frac{74}{35}$. Calculate the number.

Options:

- 1)

$\frac{9}{7}, \frac{7}{5}$

- 2)

$$\frac{5}{7}, \frac{7}{5}$$

3)

$$\frac{4}{7}, \frac{7}{4}$$

4)

$$\frac{6}{7}, \frac{7}{6}$$

Correct Answer:

$$\frac{6}{7}, \frac{7}{6}$$

QID : 3 - How many solutions does a pair of linear equations will have, if the equations are $7x+4y-16=0$ and $14x+6y-32=0$?

Options:

- 1) 0
- 2) 1
- 3) 2
- 4) Infinite

Correct Answer: 1

QID : 4 - If $(x-1)$ is a factor of $x^2-7qx+12q=0$, then find the possible values of q .

Options:

- 1) $-(1/19)$
- 2) -19
- 3) $1/19$
- 4) 19

Correct Answer: No Correct Answer (Benefit to all)

QID : 5 -

If the $\angle A = \angle D$ and $\frac{AB}{DE} = \frac{AC}{DF}$, then both triangles ABC and DEF is similar by which of the following criteria?

यदि, $\angle A = \angle D$ और $\frac{AB}{DE} = \frac{AC}{DF}$ है, तो त्रिभुज ABC और DEF किस मापदंड के अनुसार समान होंगे?

Options:

- 1) SAS similarity
- 2) ASA similarity
- 3) AAA similarity
- 4) None of these

Correct Answer: SAS similarity

QID : 6 -

The chord of a circle is 10 cm in length and at a distance of $\frac{10}{\sqrt{3}}$ cm from the centre. Calculate the angle subtended by the chord at the centre of a circle.

एक वृत्त की जीवा की लम्बाई 10 सेंटीमीटर और केंद्र से दूरी $\frac{10}{\sqrt{3}}$ सेंटीमीटर है। तो जीवा द्वारा केंद्र पर बने कोण का मान ज्ञात कीजिये।

Options:

1)

$$2 \tan^{-1} \left(\frac{\sqrt{3}}{2} \right)$$

2)

$$\frac{1}{2} \tan^{-1} \left(\frac{\sqrt{3}}{2} \right)$$

3)

$$\tan^{-1} \left(\frac{\sqrt{3}}{2} \right)$$

4) None of these

Correct Answer:

$$2 \tan^{-1} \left(\frac{\sqrt{3}}{2} \right)$$

QID : 7 - The length of a rectangular plot is increased by 60%. By how much percentage its breadth should be decreased so that total area remains same?

Options:

- 1) 52.5
- 2) 60
- 3) 40
- 4) 37.5

Correct Answer: 37.5

QID : 8 - The sum of two numbers is 80 and their difference is 8. What is the ratio of the two numbers?

Options:

- 1) 3 : 7
- 2) 5 : 4
- 3) 11 : 9
- 4) 11 : 5

Correct Answer: 11 : 9

QID : 9 - In what ratio must a mixture of 40% acid be mixed with that of 60% acid to get a mixture of 49% acid?

Options:

- 1) 2 : 1
- 2) 3 : 2
- 3) 11 : 9
- 4) 9 : 7

Correct Answer: 11 : 9

QID : 10 - If the average of 46, x, 30, 36, 59, 82, 68 and 94 is 56.5, then what is the value of x?

Options:

- 1) 40
- 2) 37
- 3) 29
- 4) 23

Correct Answer: 37

QID : 11 - The difference between simple interest on a certain sum at the rate of 8% per annum for 18 months and 24 months is Rs 452. What is the sum (in Rs)?

Options:

- 1) 10500
- 2) 14600
- 3) 11300

4) 13600

Correct Answer: 11300

QID : 12 - If the loss incurred on selling an article is 23%, then what will be the ratio of its cost price and selling price?

Options:

- 1) 100 : 77
- 2) 100 : 23
- 3) 123 : 100
- 4) 77 : 23

Correct Answer: 100 : 77

QID : 13 - An item is sold at two successive discounts of 20% and 20%. The selling price of article after the two discounts is Rs 1280. If it is sold only at one discount of 30%, then what will be the selling price (in Rs) of the article?

Options:

- 1) 1800
- 2) 1400
- 3) 2200
- 4) 2400

Correct Answer: 1400

QID : 14 -

If $x = \frac{\sqrt{5} + 1}{\sqrt{5} - 1}$ and $y = \frac{\sqrt{5} - 1}{\sqrt{5} + 1}$, then what is the value of $x - y$?

यदि $x = \frac{\sqrt{5} + 1}{\sqrt{5} - 1}$ तथा $y = \frac{\sqrt{5} - 1}{\sqrt{5} + 1}$ है, तो

$x - y$ का मान क्या है?

Options:

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

Correct Answer: 5

QID : 15 - A, B and C can complete a work in 5, 12 and 30 days respectively. In how many days can A, B and C together can do $\frac{4}{7}$ of the same work?

Options:

- 1) 269/109
- 2) 221/71
- 3) 240/133
- 4) 348/117

Correct Answer: 240/133

QID : 16 - A train starts from a place S at 11:00 a.m. and arrives at another place T at 2:30 p.m. on the same day. If the speed of the train is 25 m/s then what will be the distance (in km) covered by the train?

Options:

- 1) 345
- 2) 315
- 3) 285
- 4) 365

Correct Answer: 315

QID : 17 -

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The bar graph shows the number of SUVs of different brands sold by a dealer in a month. Study the diagram and answer the following questions.

यह बार ग्राफ़ एक महीने में एक व्यापारी द्वारा बेचे गए एसयूवी के विभिन्न ब्रांडों की संख्या को दर्शाता है। इस आरेख का अध्ययन करें और निम्नलिखित प्रश्नों के उत्तर दें।



Units sold of which SUV brand were the lowest?

Options:

- 1) F
- 2) A
- 3) E
- 4) C

Correct Answer: E

QID : 18 -

The bar graph shows the number of SUVs of different brands sold by a dealer in a month. Study the diagram and answer the following questions.

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What is the ratio of units sold of brand G to that of brand A?

Options:

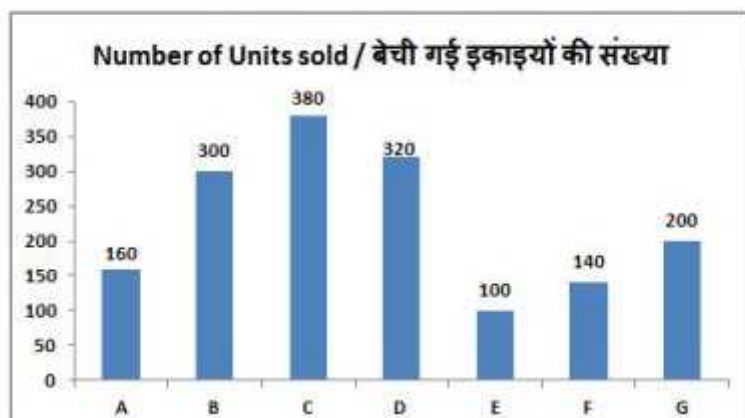
- 1) 5 : 4
- 2) 4 : 5
- 3) 11 : 14
- 4) 14 : 11

Correct Answer: 5 : 4

QID : 19 -

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Units sold of brand B was lesser than that of brand D by _____.

Options:

- 1) 5%
- 2) 6.67%
- 3) 6%
- 4) 6.25%

Correct Answer: 6.25%

QID : 20 -

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If the average price of a SUV sold by the dealer is Rs 8 lakhs then what is the sales (in Rs lakhs) of all the SUV sold by the dealer in the month?

Options:

- 1) 1280
- 2) 12000
- 3) 12800
- 4) 1200

Correct Answer: 12800

QID : 21 - The length and breadth of a rectangle are 12 cm and 5 cm respectively. What must be the length of its diagonal (in cm)?

Options:

- 1) 13
- 2) 26
- 3) 15
- 4) 30

Correct Answer: 13

QID : 22 - The area of a circle is 38.5 cm². Find its radius (in cm).

Options:

- 1) 7
- 2) 6.5
- 3) 3.5
- 4) 13

Correct Answer: 3.5

QID : 23 - Find the surface area (in cm²) of a sphere of diameter 7 cm.

Options:

- 1) 154
- 2) 124
- 3) 143
- 4) 155

Correct Answer: 154

QID : 24 - What is the value of $(\operatorname{cosec}60^\circ + 1/2)$?

Options:

- 1) $2/3$
- 2) $(2 + \sqrt{3})/2$
- 3) $(4 + \sqrt{3})/2$
- 4) $(2 + \sqrt{3})/6$

Correct Answer: $(4 + \sqrt{3})/2$

QID : 25 - In $\triangle DEF$ measure of angle E is 90° . If $\cos D = 5/13$, and $DE = 1\text{cm}$, then what is the length (in cm) of side EF?

Options:

- 1) 2.6
- 2) 2.4
- 3) 1.5
- 4) 2

Correct Answer: 2.4



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