

**SSC CHSL (Tier - 1) Online Exam Paper - 2017 "held on 17
March 2018"**

Morning Shift (Quantitative Aptitude)

QID : 1 - In a company $\frac{2}{3}$ of the workers are girls, $\frac{1}{2}$ of the girls are married and $\frac{1}{3}$ of the married girls live in hostel. If $\frac{3}{4}$ of the boys are married and $\frac{2}{3}$ of married boys live in hostel. Calculate the part of workers who don't live in hostel.

- 1) $\frac{11}{18}$
- 2) $\frac{15}{18}$
- 3) $\frac{17}{18}$
- 4) $\frac{13}{18}$

Correct Answer: $\frac{13}{18}$

QID : 2 - If a number 657423547X46 is divisible by 11, then find the value of X.

- 1) 7
- 2) 9
- 3) 8
- 4) 6

Correct Answer: 9

QID : 3 -

Determine the value of $\frac{x+y}{x+2y}$ when $\frac{2x+y}{x+4y} = 3$.

$\frac{x+y}{x+2y}$ का मान ज्ञात कीजिये, यदि $\frac{2x+y}{x+4y} = 3$ है।

- 1) 3/5
- 2) 7/10
- 3) 4/5
- 4) 9/10

Correct Answer: No Correct Answer (Benefit to all)

QID : 4 -

For what value of 'y', $x^2 + \frac{1}{12}x + y^2$ is a perfect square?

'y' के किस मान के लिए, $x^2 + \frac{1}{12}x + y^2$ एक आदर्श वर्ग बन जाएगा?

- 1) 1/24
- 2) 1/12
- 3) 1/6
- 4) 1/3

Correct Answer: 1/24

QID : 5 - Which of the following statement is CORRECT about the tangents?

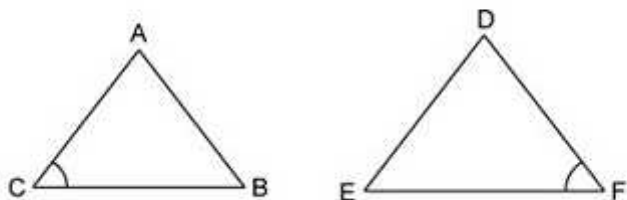
- 1) The tangents drawn at the end of diameter of a circle are parallel to each other.
- 2) The line segment which joins the point of contact of two parallel tangents to the circle is the diameter of the circle.
- 3) Tangents drawn from the external points subtends equal angle at the center.
- 4) All option are correct.

Correct Answer: All option are correct.

QID : 6 -

Which of the following option is CORRECT for SAS similarity criterion for the triangle ABC and DEF?

त्रिभुज ABC और DEF के लिए SAS समानता मानदंड के लिए निम्न में से कौन सा विकल्प सही है?



1)

$$\angle A = \angle D \text{ and } \frac{AB}{DE} = \frac{AC}{DF}$$

2)

$$\angle B = \angle E \text{ and } \frac{AB}{DE} = \frac{BC}{EF}$$

3)

$$\angle C = \angle F \text{ and } \frac{AC}{DF} = \frac{BC}{EF}$$

4) All option are correct

Correct Answer: All option are correct

QID : 7 - If price of the table is increased by 25%, then a person can buy 25 table less for Rs 25000. What is the original price (in Rs) of the table?

- 1) 225
- 2) 250
- 3) 200
- 4) 167

Correct Answer: 200

QID : 8 - A sum of Rs 125 is divided among u, v and w in such a way that u gets Rs 10 more than v and v gets Rs 5 more than w. What is the ratio of their shares?

- 1) 12 : 10 : 9
- 2) 10 : 8 : 7
- 3) 13 : 10 : 7
- 4) 5 : 4 : 3

Correct Answer: 10 : 8 : 7

QID : 9 - In an alloy, lead and tin are in the ratio of 2 : 3. In the second alloy, the ratio of same elements is 3 : 4. If equal quantities of these two alloy are mixed to form a new alloy, then what

will be the ratio of these two elements in the new alloy?

- 1) 1 : 3
- 2) 29 : 41
- 3) 25 : 37
- 4) 31 : 43

Correct Answer: 29 : 41

QID : 10 - Average age of 6 boys is 14 years. Average age of 11 girls is 12 years. What is the average age (in years) of all boys and girls?

- 1) 12.7
- 2) 14.6
- 3) 19.3
- 4) 8.5

Correct Answer: 12.7

QID : 11 - Simple interest on a sum for 10 years is equal to 5% of the principal. In how many years interest will be equal to the principal?

- 1) 100
- 2) 150
- 3) 200
- 4) 250

Correct Answer: 200

QID : 12 - The ratio of selling price to the cost price is 21 : 16. What is the profit percentage?

- 1) 35.75
- 2) 21.75
- 3) 27.75
- 4) 31.25

Correct Answer: 31.25

QID : 13 - Dinesh purchases 10 dozens of apples at the rate of Rs 180 per dozen. He sold each one of them at the rate of Rs 19.5. What is the profit (in percentage) of Dinesh?

- 1) 30
- 2) 15
- 3) 18
- 4) 25

Correct Answer: 30

QID : 14 - If $x = 4 + 15$, then what is the value of $[x^2 + (1/x^2)]$?

- 1) 62
- 2) 64
- 3) 34
- 4) 36

Correct Answer: 62

QID : 15 - Some masons promised to do a work in 10 days but 8 of them were absent and remaining did the work in 18 days. What was the original number of masons?

- 1) 10
- 2) 21
- 3) 15
- 4) 18

Correct Answer: 18

QID : 16 - A boat goes 8 km upstream and 12 km downstream in 7 hours. It goes 9 km upstream and 18 km downstream in 9 hours. What is the speed (in km/h) of the boat in still water?

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

Correct Answer: 3

QID : 17 -

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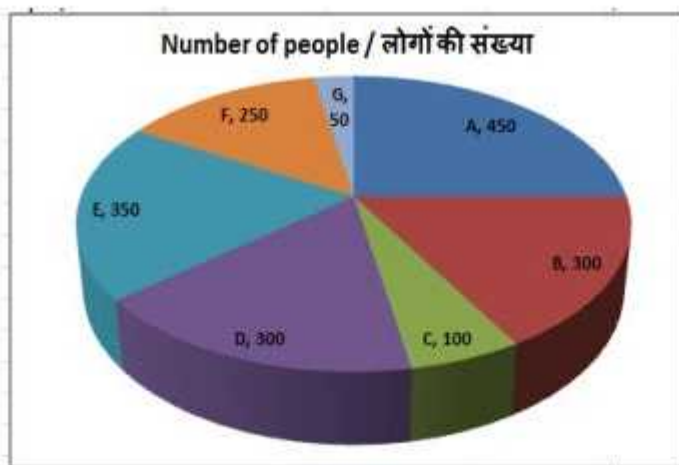
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The pie chart shows the results of an online survey which asked people about their favourite movie. Study the diagram and answer the following questions.

यह पाइ चार्ट एक ऑनलाइन सर्वेक्षण के परिणाम दर्शाता है जिसमें लोगों को उनके पसंदीदा फिल्म के बारे में पूछा गया था। इस आरेख का अध्ययन करें और निम्नलिखित प्रश्नों के उत्तर दें।



Which movie is the favourite of most people surveyed?

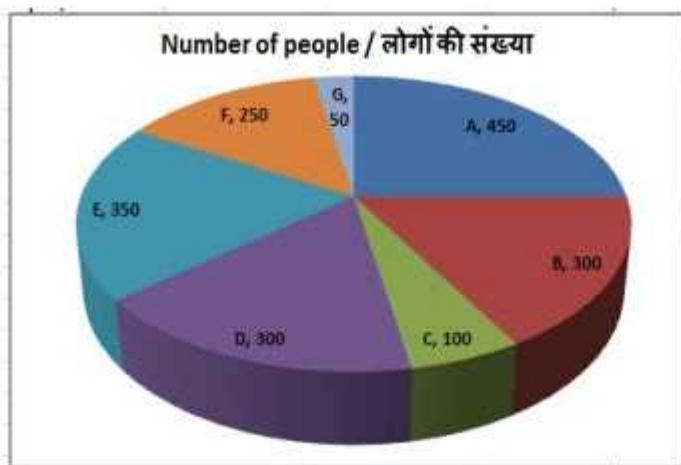
- 1) F
- 2) D
- 3) A
- 4) E

Correct Answer: A

QID : 18 -

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What is the total numbers of people who have responded to the survey?

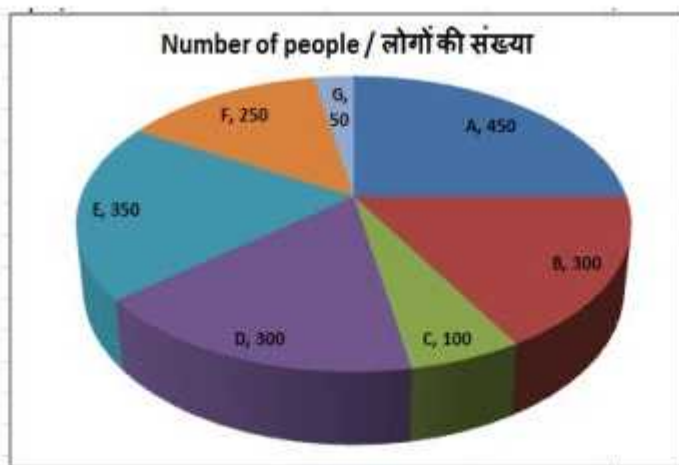
- 1) 1800
- 2) 2100
- 3) 2400
- 4) 2000

Correct Answer: 1800

QID : 19 -

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The measure of the central angle of the sector representing number of people whose favourite movie is C is _____ degrees.

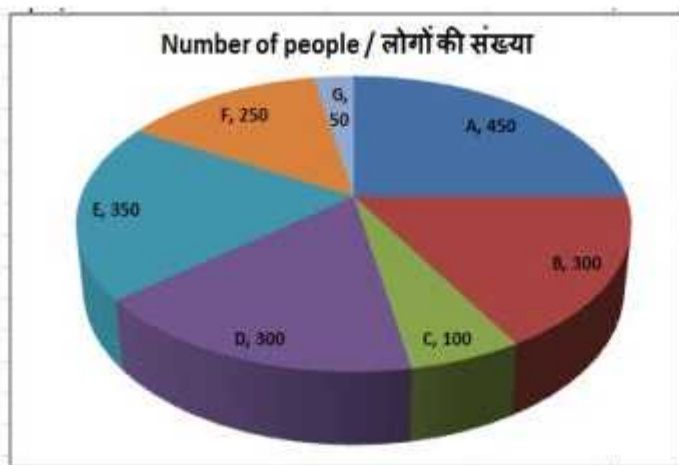
- 1) 15
- 2) 20
- 3) 30
- 4) 10

Correct Answer: 20

QID : 20 -

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यह पाइ चार्ट एक ऑनलाइन सर्वेक्षण के परिणाम दर्शाता है जिसमें लोगों को उनके पसंदीदा फिल्म के बारे में पूछा गया था। इस आरेख का अध्ययन करें और निम्नलिखित प्रश्नों के उत्तर दें।



Respondents who say their favourite movie is D and those who say their favourite movie is B constitute what percent of the total respondents?

- 1) 30
- 2) 33.33
- 3) 40
- 4) 25

Correct Answer: 33.33

QID : 21 - The perimeter and the length of one of the diagonals of a rhombus is 26 cm and 5 cm respectively. Find the length of its other diagonal (in cm).

- 1) 6
- 2) 12
- 3) 24
- 4) 18

Correct Answer: 12

QID : 22 - If the area of a semi-circle is 1925 cm², then find its radius (in cm).

- 1) 70

- 2) 31
- 3) 62
- 4) 35

Correct Answer: 35

QID : 23 - The total surface area of a cube is 253.5 cm². Find its side (in cm).

- 1) 7.5
- 2) 5.5
- 3) 6.5
- 4) 8.5

Correct Answer: 6.5

QID : 24 - DEF is right angled at E. If $m\angle F = 30^\circ$, then find the value of $(\sin D - 1/3)$.

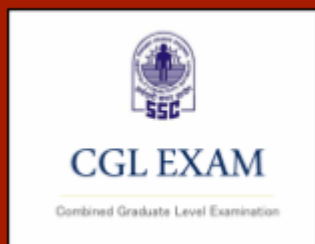
- 1) $-1/2 \sqrt{3}$
- 2) $(3 - \sqrt{3})/6$
- 3) $(2 - \sqrt{3})/6$
- 4) $(2 - \sqrt{3})/2$

Correct Answer: $(3 - \sqrt{3})/6$

QID : 25 - DEF is right angled at E. If $\operatorname{cosec} D = 25/24$, then what is the value of $\cos F$?

- 1) 25/7
- 2) 24/7
- 3) 24/25
- 4) 7/24

Correct Answer: 24/25



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