

SSC CGL 2017 EXAM PAPER : Held on 21-AUG-2017 Shift-1
(Mathematics)

QID : 51 - What least number must be added to 329, so that the sum is completely divisible by 7?

Options:

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

Correct Answer: 0

QID : 52 - A can do a work in 15 days and B in 30 days. If they work on it together, then in how many days will they be able to do 50% of the work?

Options:

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

Correct Answer: 5

QID : 53 - What is the area (in sq cm) of an equilateral triangle of side 10 cm?

Options:

- 1) 25 3
- 2) 50 3
- 3) 75 3
- 4) 10 3

Correct Answer: 25 3

QID : 54 - What is the effective discount (in %) on two successive discounts of 15% and 50%?

Options:

- 1) 65
- 2) 57.5
- 3) 35
- 4) 42.5

Correct Answer: 57.5

QID : 55 - Profit of Rs 42,500 has to be divided between three partners A, B and C in the ratio 3:5:9. How much (in Rs) does A get?

Options:

- 1) 12500
- 2) 9500
- 3) 22500
- 4) 7500

Correct Answer: 7500

QID : 56 - The average weight of A, B and C is 49 kg. If the average weight of A and B is 35 kg and that of B and C is 62 kg, then the weight of B (in kgs) is?

Options:

- 1) 47
- 2) 45
- 3) 43
- 4) 49

Correct Answer: 47

QID : 57 - A shopkeeper by selling 6 items, earns a profit equal to the selling price of 1 item. What is his profit percentage?

Options:

- 1) 20

- 2) 25
- 3) 30
- 4) 35

Correct Answer: 20

QID : 58 - What is the value of 125% of 25% of 80?

Options:

- 1) 50
- 2) 25
- 3) 20
- 4) 40

Correct Answer: 25

QID : 59 - To cover a distance of 81 km in 1.5 hours what should be the average speed of the car in meters/second?

Options:

- 1) 10
- 2) 15
- 3) 12
- 4) 9

Correct Answer: 15

QID : 60 - In 4 years at simple interest the principal increases by 32%. What will be the compound interest earned (in Rs) on Rs. 24,000 in 3 years at the same rate?

Options:

- 1) 5233
- 2) 6332
- 3) 5332
- 4) 6233

Correct Answer: 6233

QID : 61 - If $\frac{5}{2}(8x/3 - 1/2) + 13/2 = 2x/3$, then what is the value of x?

Options:

- 1) 7/8
- 2) 8/7
- 3) -8/7
- 4) -7/8

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Correct Answer: -7/8

QID : 62 - If $a^3 + b^3 = 72$ and $ab = 8$, then what is the value of $a + b$?

Options:

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

Correct Answer: 6

QID : 63 - Sum of four times a fraction and 7 times its reciprocal is 16. What is the fraction?

Options:

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

Correct Answer: 7/2

QID : 64 - What is the sum of the first 11 terms of an arithmetic progression if the 3rd term is -1 and the 8th term is 19?

Options:

- 1) 204
- 2) 99
- 3) 225
- 4) 104

Correct Answer: 99

QID : 65 - What is the reflection of the point (-3, 2) in the line $x = -2$?

Options:

- 1) (-3 , -6)
- 2) (1 , 2)
- 3) (-3 , 6)
- 4) (-1 , 2)

Correct Answer: (-1 , 2)

QID : 66 - Point P is the midpoint of segment AB. Co-ordinates of P are (1 , 3) and A are (-3 , 8). What are the co-ordinates of point B?

Options:

- 1) (-5 , -2)
- 2) (-5 , 2)
- 3) (5 , 2)
- 4) (5 , -2)

Correct Answer: (5 , -2)

QID : 67 - What is the slope of the line perpendicular to the line passing through the points (3 , -2) and (4 , 2)?

Options:

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

Correct Answer: -1/4

QID : 68 - ABC is similar to PQR. If ratio of perimeters of ABC and PQR is 3:7 and if PQ = 21 cm, then the length of AB (in cm) is?

Options:

- 1) 6
- 2) 14
- 3) 9
- 4) 18

Correct Answer: 9

QID : 69 - What is the value of $2 \sec 45^\circ + \tan 30^\circ$?

Options:

- 1) $(2\sqrt{6} + 1)/3$
- 2) 3
- 3) $(2\sqrt{2} + 3)/6$
- 4) $(9 + 2\sqrt{3})/9$

Correct Answer: $(2\sqrt{6} + 1)/3$

QID : 70 - ABC is right angled at B. If $m\angle A = 60^\circ$, then what is the value of Cot C?

Options:

- 1) 2

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

Correct Answer: 3

QID : 71 - If $\operatorname{Cosec} \theta = 25/7$, then what is the value of $\cos \theta$?

Options:

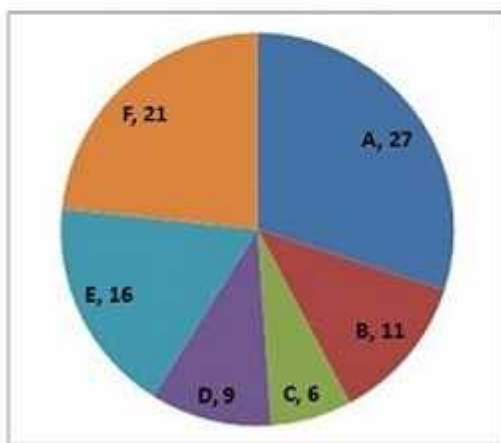
- 1) $25/24$
- 2) $7/24$
- 3) $24/25$
- 4) $7/25$

Correct Answer: 24/25

QID : 72 -

The pie chart shows the votes in 1000s polled in favour of six candidates (A, B, C, D, E, F) contesting for a particular seat. Study the diagram and answer the following questions.

पाई चार्ट एक सीट के लिए चुनाव लड़ रहे छह उम्मीदवारों (A, B, C, D, E, F) के पक्ष में मिले वोट (हज़ारों में) दर्शाता है। इस आरेख का अध्ययन करें और निम्नलिखित प्रश्नों का उत्तर दें।



If Candidate A is disqualified then which candidate will be declared the winner?

Options:

- 1) E
- 2) B
- 3) F

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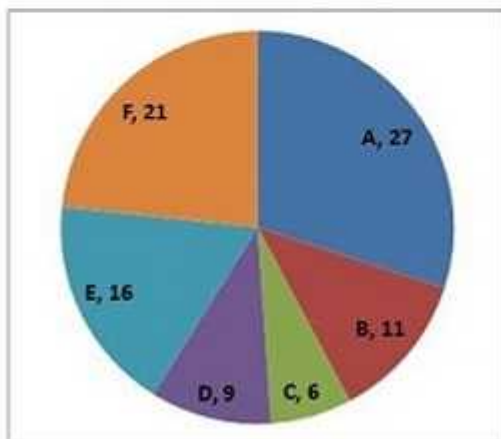
4) D

Correct Answer: F

QID : 73 -

The pie chart shows the votes in 1000s polled in favour of six candidates (A, B, C, D, E, F) contesting for a particular seat. Study the diagram and answer the following questions.

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The winning candidate got how many more votes than the one who came second?

Options:

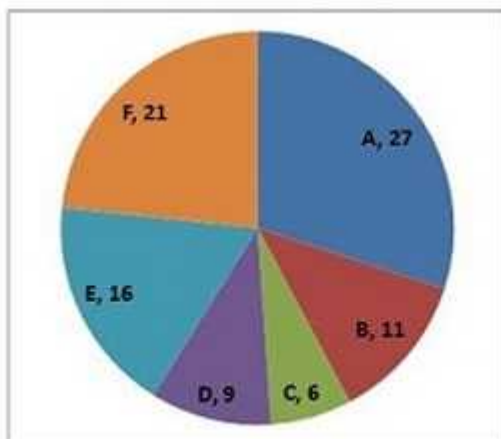
- 1) 6000
- 2) 5000
- 3) 11000
- 4) 7000

Correct Answer: 6000

QID : 74 -

The pie chart shows the votes in 1000s polled in favour of six candidates (A, B, C, D, E, F) contesting for a particular seat. Study the diagram and answer the following questions.

पाई चार्ट एक सीट के लिए चुनाव लड़ रहे छह उम्मीदवारों (A, B, C, D, E, F) के पक्ष में मिले वोट (हज़ारों में) दर्शाता है। इस आरेख का अध्ययन करें और निम्नलिखित प्रश्नों का उत्तर दें।



Analysts believe that if candidate E had not stood in the fray then votes that he got would have been equally divided between F and C, then what would have been the result?

Options:

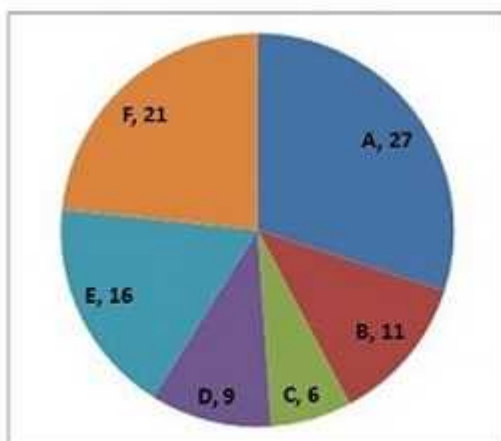
- 1) A would have lost by 1000 votes
- 2) F would have won by 2000 votes
- 3) F would have lost by 2000 votes
- 4) A would have won by 1000 votes

Correct Answer: F would have won by 2000 votes

QID : 75 -

The pie chart shows the votes in 1000s polled in favour of six candidates (A, B, C, D, E, F) contesting for a particular seat. Study the diagram and answer the following questions.

पाई चार्ट एक सीट के लिए चुनाव लड़ रहे छह उम्मीदवारों (A, B, C, D, E, F) के पक्ष में मिले वोट (हज़ारों में) दर्शाता है। इस आरेख का अध्ययन करें और निम्नलिखित प्रश्नों का उत्तर दें।



If voting attendance was 60% then how many names must be there in the voter list?

Options:

- 1) 225000
- 2) 90000
- 3) 144000
- 4) 150000

Correct Answer: 150000



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