

SSC CGL 2017 EXAM PAPER : Held on 19-AUG-2017 Shift-2
(Mathematics)

QID : 157 - A milkman buys milk at Rs 24 per litre. He adds $\frac{1}{5}$ of water to it and sells the mixture at Rs 32 per litre. What will be his gain (in %)?

Options:

- 1) 50
- 2) 40
- 3) 30
- 4) 60

Correct Answer: 60

QID : 158 - When a number is increased by 105, it becomes 135% of itself. What is the number?

Options:

- 1) 450
- 2) 300
- 3) 600
- 4) 400

Correct Answer: 300

QID : 159 - Two cyclists P and Q cycle at 20 km/hr and 16 km/hr towards each other respectively. What was the distance (in kms) between them when they started if they met after 40 minutes?

Options:

- 1) 36
- 2) 30
- 3) 25
- 4) 24

Correct Answer: 24

QID : 160 - If the amount received at 10% per annum Compound interest after 3 yrs is Rs 19965, then what will have been the principal (in Rs) amount?

Options:

- 1) 16000
- 2) 15000
- 3) 17000
- 4) 18000

Correct Answer: 15000

QID : 161 - If $8x/3 + [7(5 - 2x/3)]/2 = 1/2$, then what is the value of x?

Options:

- 1) -17
- 2) 51
- 3) -51
- 4) 17

Correct Answer: -51

QID : 162 - If $a - b = -1$ and $ab = 6$, then what is the value of $a^3 - b^3$?

Options:

- 1) 33
- 2) -19
- 3) 18
- 4) 35

Correct Answer: -19

QID : 163 - The sum of a fraction and 3 times its reciprocal is $31/6$. What is the fraction?

Options:

- 1) $2/9$
- 2) $9/2$
- 3) $5/4$

4) $\frac{4}{5}$

Correct Answer: $\frac{9}{2}$

QID : 164 - The 2nd and 8th term of an arithmetic progression are 17 and -1 respectively. What is the 14th term?

Options:

- 1) -22
- 2) -25
- 3) -19
- 4) -28

Correct Answer: -19

QID : 165 - What is the reflection of the point (2, 3) in the line $y = 4$?

Options:

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

Correct Answer: (2, 5)

QID : 166 - Point P (-2, 5) is the midpoint of segment AB. Co-ordinates of A are (-5, y) and B are (x, 3). What is the value of x?

Options:

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

Correct Answer: 1

QID : 167 - What is the equation of a line having a slope $-\frac{1}{3}$ and y-intercept equal to 6?

Options:

- 1) $x + 3y = 18$
- 2) $x - 3y = 6$
- 3) $x + 3y = -18$
- 4) $x - 3y = -6$

Correct Answer: $x + 3y = 18$

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QID : 168 - ABC is right angled at B. BD is its altitude. AD = 4 cm and DC = 12 cm. What is the value of AB (in cm)?

Options:

- 1) 9
- 2) 10
- 3) 6
- 4) 8

Correct Answer: 8

QID : 169 - What is the value of $\sin 60^\circ + \frac{1}{2}\operatorname{Cosec} 45^\circ$?

Options:

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

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

QID : 170 - LMN is right angled at M. If $m\angle N = 45^\circ$. What is the length (in cm) of MN, if NL = $6\sqrt{2}$ cm?

Options:

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

Correct Answer: 6

QID : 171 - If $\cos \theta = 35/37$, then what is the value of $\operatorname{Cosec} \theta$?

Options:

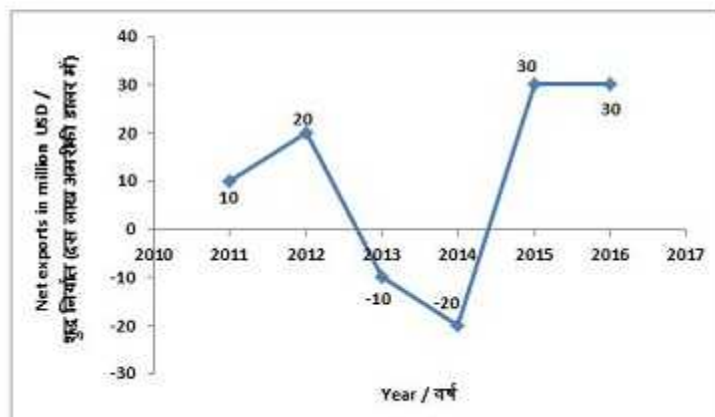
- 1) $37/12$
- 2) $33/12$
- 3) $35/12$
- 4) $12/35$

Correct Answer: $37/12$

QID : 172 -

The line graph shows Net exports in million USD of a certain country (Net exports = Exports - Imports). Study the diagram and answer the following questions.

लाइन ग्राफ एक निश्चित देश का शुद्ध निर्यात (दस लाख अमरीकी डालर में) दर्शाता है। (शुद्ध निर्यात = निर्यात - आयात)। इस आरेख का अध्ययन करें और निम्नलिखित प्रश्नों का उत्तर दें।



In how many years were the net exports more than that of the previous year?

Options:

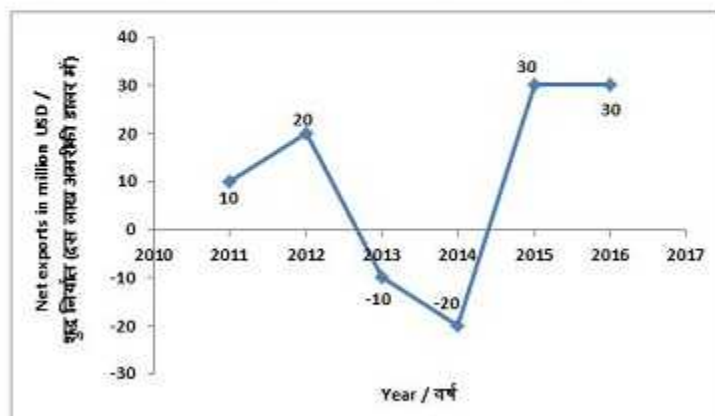
- 1) 1
- 2) 3
- 3) 4
- 4) 2

Correct Answer: 2

QID : 173 -

The line graph shows Net exports in million USD of a certain country (Net exports = Exports - Imports). Study the diagram and answer the following questions.

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If the exports in 2013 were 90 million USD then what was the imports (in million USD)?

Options:

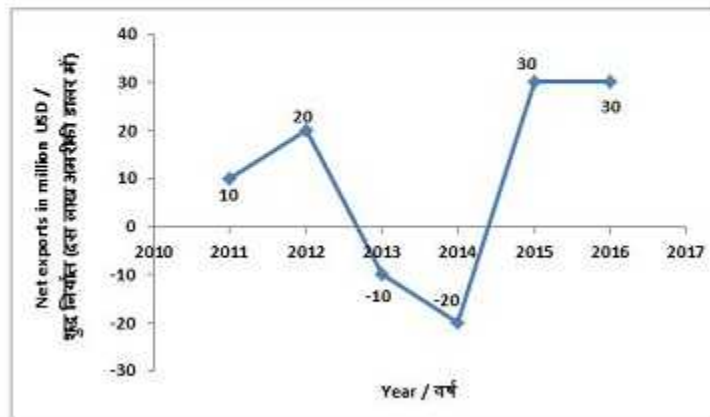
- 1) 80
- 2) 110
- 3) 70
- 4) 100

Correct Answer: 100

QID : 174 -

The line graph shows Net exports in million USD of a certain country (Net exports = Exports - Imports). Study the diagram and answer the following questions.

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What is the ratio of net exports in year 2016 to that in year 2012?

Options:

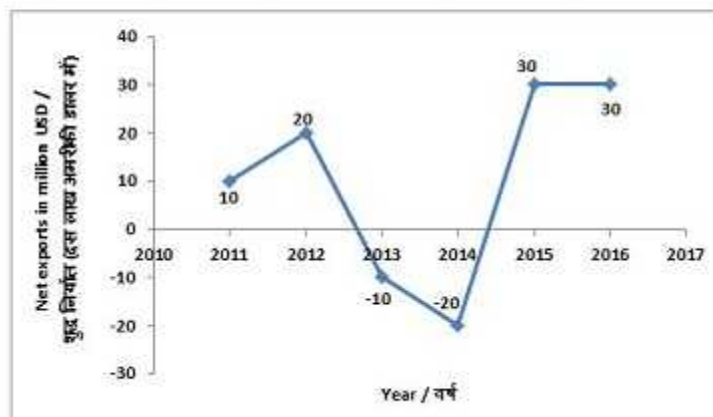
- 1) 2 : 3
- 2) 3 : 1
- 3) 1 : 3
- 4) 3 : 2

Correct Answer: 3 : 2

QID : 175 -

The line graph shows Net exports in million USD of a certain country (Net exports = Exports - Imports). Study the diagram and answer the following questions.

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Cumulative net exports (in million USD) from the beginning of 2012 to the end of 2015 was?

Options:

- 1) 80
- 2) 40
- 3) 20
- 4) 60

Correct Answer: 20



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