

## **SSC CGL 2017 EXAM PAPER : Held on 17-AUG-2017 Shift-2**

### **(Mathematics)**

**QID : 151 - What is the value of  $9991 \times 10009$ ?**

**Options:**

- 1) 99999099
- 2) 99999819
- 3) 99999919
- 4) 99999019

**Correct Answer: 99999919**

**QID : 152 - A can do  $\frac{1}{3}$ rd of a job in 3 days and B can do half of the job in 9 days. If they work on it together, then in how many days can they finish half of the job?**

**Options:**

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

**Correct Answer: 3**

**QID : 153 - What is the area (in sq cm) of a rhombus if the lengths of its diagonals are 25 cm and 20 cm?**

**Options:**

- 1) 500

- 2) 250
- 3) 125
- 4) 200

**Correct Answer: 250**

**QID : 154 - If a shopkeeper sells an item at Rs 4200 which is marked as Rs 4800, then what is the discount (in %) that he is offering?**

**Options:**

- 1) 12.5
- 2) 14.28
- 3) 10
- 4) 15

**Correct Answer: 12.5**

**QID : 155 - The flight fare between two cities is increased in the ratio 11:13. What is the increase (in Rs) in the fare, if the original fare was Rs 12100?**

**Options:**

- 1) 14300
- 2) 2200
- 3) 22000
- 4) 1430

**Correct Answer: 2200**

**QID : 156 - 3 numbers whose average is 112, the first number is  $\frac{1}{6}$ th the sum of other 2. What is the first number?**

**Options:**

- 1) 45
- 2) 30
- 3) 15
- 4) 48

**Correct Answer: 48**

**QID : 157 - A trader buys 800 kgs of tomatoes for Rs 7200. 10% tomatoes are damaged in transportaion. At what rate (Rs/Kg) should he sell the rest to earn 30% profit?**

**Options:**

- 1) 9
- 2) 13
- 3) 10

4) 12

**Correct Answer: 13**

**QID : 158 - A student has to secure 35% marks to pass in a subject. If he gets 82 and fails by 23 marks. What is the maximum marks of the subject?**

**Options:**

- 1) 300
- 2) 250
- 3) 350
- 4) 400

**Correct Answer: 300**

**QID : 159 - A spaceship travels at 810 km/hr. How many metres does it travel in 1/5th of a second?**

**Options:**

- 1) 60
- 2) 45
- 3) 75
- 4) 90

**Correct Answer: 45**

**QID : 160 - If the amount received at the end of 2nd and 3rd year as Compound Interest on a certain Principal is Rs 2100, and Rs 2268 respectively, what is the rate (in %) of interest?**

**Options:**

- 1) 7
- 2) 8
- 3) 9
- 4) 10

**Correct Answer: 8**

**QID : 161 - If  $5x - (1/2)(2x - 7) = 5.5$ , then what is the value of x?**

**Options:**

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

**Correct Answer:  $1/2$**

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**QID : 162 - If  $a + b = 4$  and  $ab = -5$ , then what is the value of  $a^3 + b^3$ ?**

**Options:**

- 1) 34
- 2) 36
- 3) 124
- 4) 126

**Correct Answer: 124**

**QID : 163 - The sum of a number and 4 times its reciprocal is 5. What is the number?**

**Options:**

- 1) 4
- 2) 5
- 3) 6
- 4) 7

**Correct Answer: 4**

**QID : 164 - The 3rd and 8th term of an arithmetic progression are -13 and 2 respectively. What is the 14th term?**

**Options:**

- 1) 23
- 2) 17
- 3) 20
- 4) 26

**Correct Answer: 20**

**QID : 165 - What is the reflection of the point (4 , -3) in the line  $y = 1$ ?**

**Options:**

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

**Correct Answer: (4, 5)**

**QID : 166 - In what ratio does the point  $T(x, 0)$  divide the segment joining the points  $S(5, 1)$  and  $U(-1, -2)$ ?**

**Options:**

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

**Correct Answer: 1 : 2**

**QID : 167 - At what point does the line  $3x + 2y = 12$  cuts the Y-axis?**

**Options:**

- 1) (0, 6)
- 2) (0, -6)
- 3) (6, 0)
- 4) (-6, 0)

**Correct Answer: (0, 6)**

**QID : 168 - The areas of two similar triangles ABC and PQR are 121 sq cms and 64 sq cms respectively. If PQ = 12 cm, what is the length (in cm) of AB?**

**Options:**

- 1) 7.25
- 2) 6.25
- 3) 16.5
- 4) 5.25

**Correct Answer: 16.5**

**QID : 169 - What is the value of  $\tan 60^\circ + \operatorname{cosec} 60^\circ$ ?**

**Options:**

- 1)  $\frac{5}{3}$
- 2)  $\frac{2}{3}$
- 3)  $\frac{5}{\sqrt{3}}$
- 4)  $\frac{2}{\sqrt{3}}$

**Correct Answer:  $\frac{5}{\sqrt{3}}$**

**QID : 170 - XYZ is right angled at Y. If  $m\angle Z = 60^\circ$ , then what is the value of  $(\frac{1}{\sqrt{2}} \sec X)$ ?**

**Options:**

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

**Correct Answer: 2/ 6**

**QID : 171 -** If  $\operatorname{Cosec} \theta = \frac{17}{8}$ , then what is the value of  $\cos \theta$  ?

**Options:**

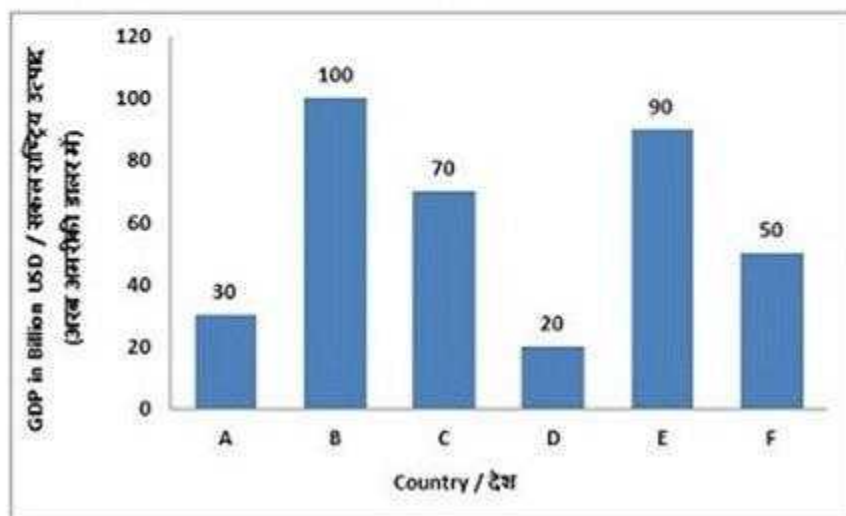
- 1)  $\frac{15}{8}$
- 2)  $\frac{15}{17}$
- 3)  $\frac{8}{15}$
- 4)  $\frac{17}{15}$

**Correct Answer: 15/17**

**QID : 172 -**

The bar graph shows GDP for the year 2016 in billion USD of six countries (A, B, C, D, E, F) of a regional trade block. Study the diagram and answer the following questions.

बार ग्राफ वर्ष 2016 में एक क्षेत्रीय व्यावसायिक ब्लॉक के छह देशों (A, B, C, D, E, F) का सकल राष्ट्रीय उत्पाद (अरब अमरीकी डालर में) दर्शाता है। इस आरेख का अध्ययन करें और निम्नलिखित प्रश्नों का उत्तर दें।



**Which country is the third biggest in terms of Gross Domestic Product (GDP)?**

**Options:**

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

**Correct Answer: C**

**QID : 173 -**

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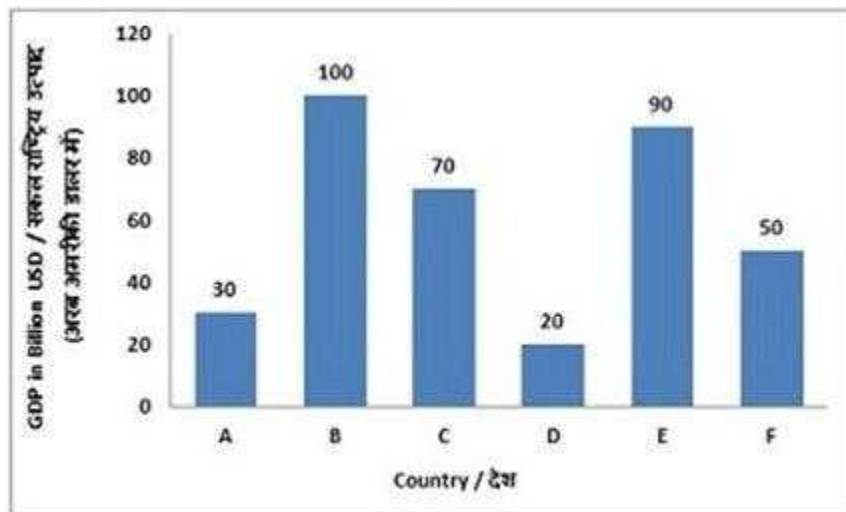
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The bar graph shows GDP for the year 2016 in billion USD of six countries (A, B, C, D, E, F) of a regional trade block. Study the diagram and answer the following questions.

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By what amount (in billion USD) is the Gross Domestic Product (GDP) of Country A lesser than that of Country F?

Options:

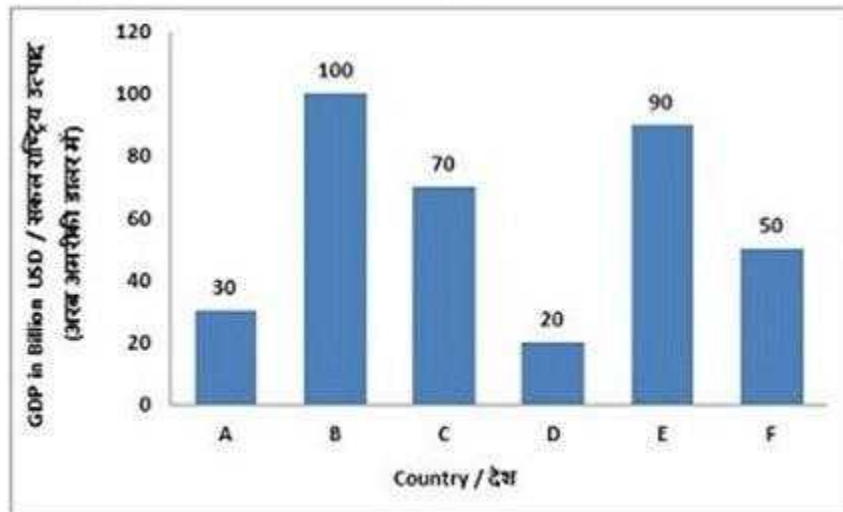
- 1) 20
- 2) 50
- 3) 25
- 4) 40

Correct Answer: 40

QID : 174 -

The bar graph shows GDP for the year 2016 in billion USD of six countries (A, B, C, D, E, F) of a regional trade block. Study the diagram and answer the following questions.

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What is the ratio of Gross Domestic Product (GDP) of Country E to Total of GDPs of countries A, C and F taken together?

Options:

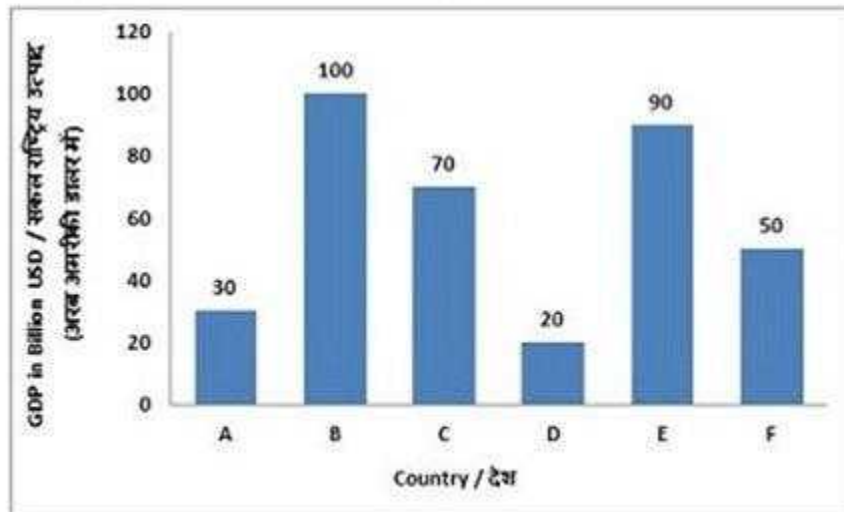
- 1) 3 : 5
- 2) 5 : 3
- 3) 9 : 5
- 4) 5 : 9

Correct Answer: 3 : 5

QID : 175 -

The bar graph shows GDP for the year 2016 in billion USD of six countries (A, B, C, D, E, F) of a regional trade block. Study the diagram and answer the following questions.

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If the combined GDP of the six countries has grown by 50% in the last decade, then what was their combined annual Gross Domestic Product (in billion USD) before 10 years?

Options:

- 1) 540
- 2) 180
- 3) 240
- 4) 200

Correct Answer: 240



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