

**SSC CGL 2017 EXAM PAPER : Held on 08-AUG-2017
Shift-3
(Mathematics)**

QID : 251 - Which one is the largest among the fractions $(\frac{5}{113})$, $(\frac{7}{120})$, $(\frac{13}{145})$ and $(\frac{17}{160})$?

Options:

- 1) $\frac{5}{113}$
- 2) $\frac{7}{120}$
- 3) $\frac{13}{145}$
- 4) $\frac{17}{160}$

Correct Answer: $\frac{17}{160}$

QID : 252 - Nirmal can do $\frac{2}{3}$ of a job in 18 days. Kashish is twice as efficient as Nirmal. In how many days Kashish will complete the job?

Options:

- 1) $\frac{29}{4}$
- 2) $\frac{27}{2}$
- 3) $\frac{31}{2}$
- 4) $\frac{13}{2}$

Correct Answer: $\frac{27}{2}$

QID : 253 - 40 men took a dip in a pool 30 m long and 25 m broad. If the average water displaced by a man is 5 m³, then what will be the rise (in cm) in level of the pool?

Options:

- 1) 25
- 2) 26.66
- 3) 27.33
- 4) 28

Correct Answer: 26.66

QID : 254 - An article is listed at Rs 2375. A man purchases it at two successive discounts of 50% and 25% and spends Rs 165 on repairing of article. If he sells the article at a profit of 62.5%, then what is the selling price (in Rs) of the article?

Options:

- 1) 1467.6
- 2) 1492.6
- 3) 1715.39
- 4) 1467.6

Correct Answer: 1715.39

QID : 255 - The length, breadth and height of a cuboid are in the ratio 19 : 11 : 13. If length is 30 cm more than height, then what is the volume (in cm³) of this cuboid?

Options:

- 1) 81510
- 2) 89665
- 3) 195300
- 4) 339625

Correct Answer: 339625

QID : 256 - Average age of a team having 12 players is 23 years. If the age of the coach is also included, then the average age increases by 2 years. What is the age (in years) of the coach?

Options:

- 1) 41
- 2) 47
- 3) 49
- 4) 51

Correct Answer: 49

QID : 257 - An item is sold at two successive gains of 30% and 20%. If the final selling price is Rs 31200, then what is the cost price (in Rs)?

Options:

- 1) 15000
- 2) 20000
- 3) 22250
- 4) 24000

Correct Answer: 20000

QID : 258 - The number of trees in a town is 17640. If the numbers of trees increases annually at the rate of 5%, then how many trees were there 2 years ago?

Options:

- 1) 14000
- 2) 15000
- 3) 16000
- 4) 19450

Correct Answer: 16000

QID : 259 - Aman and Kapil starts from Delhi and Gwalior respectively towards each other at same time. They meet at Mathura and then take 196 minutes and 225 minutes respectively to reach Gwalior and Delhi. If speed of Aman is 30 km/hr, then what is the speed (in km/hr) of Kapil?

Options:

- 1) 28
- 2) 30
- 3) $225/7$
- 4) $392/15$

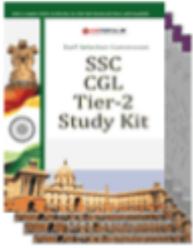
Correct Answer: 28

QID : 260 - The simple interest on a sum of money for 10 years is Rs 3130. If the principal becomes 5 times after 5 years, then what will be the total interest (in Rs) obtained after 10 years?

Options:

- 1) 6260
- 2) 7825
- 3) 9390

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4) 15650

Correct Answer: 9390

QID : 261 -

If $\frac{11-13x}{x} + \frac{11-13y}{y} + \frac{11-13z}{z} = 5$, then what is the value of $\frac{1}{x} + \frac{1}{y} + \frac{1}{z}$?

यदि $\frac{11-13x}{x} + \frac{11-13y}{y} + \frac{11-13z}{z} = 5$, तो $\frac{1}{x} + \frac{1}{y} + \frac{1}{z}$ का मान क्या है?

Options:

1) 1

2) 13/11

3) 13/5

4) 4

Correct Answer: 4

QID : 262 - If $2x + (9/x) = 9$, then what is the minimum value of $x^2 + (1/x^2)$?

Options:

1) 95/36

2) 97/36

3) 86/25

4) 623/27

Correct Answer: 97/36

QID : 263 - If $(5x - y)/(5x + y) = 3/7$, then what is the value of $(4x^2 + y^2 - 4xy)/(9x^2 + 16y^2 + 24xy)$?

Options:

1) 0

2) 3/7

3) 18/49

4) 1/6

Correct Answer: 0

QID : 264 - If $(x + y)^2 = xy + 1$ and $x^3 - y^3 = 1$, then what is the value of $x - y$?

Options:

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

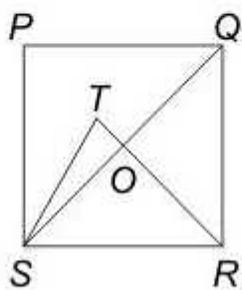
Correct Answer: 1

QID : 265 -

QID : 265 -

In the given figure, $PQRS$ is a square and SRT is an equilateral triangle. What is the value (in degrees) of $\angle SOR$?

दी गई आकृति में, $PQRS$ एक वर्ग है तथा SRT एक समबाहु त्रिभुज है। $\angle SOR$ का मान (डिग्री में) क्या है?

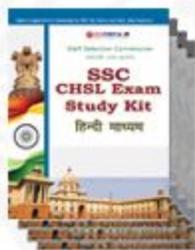


Options:

- 1) 45
- 2) 55
- 3) 60
- 4) 75

Correct Answer: 75

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QID : 266 - ABCD is a parallelogram in which $AB = 7$ cm, $BC = 9$ cm and $AC = 8$ cm. What is the length (in cm) of other diagonal?

Options:

- 1) 14
- 2) $14\sqrt{2}$
- 3) 7
- 4) $7\sqrt{2}$

Correct Answer: 14

QID : 267 - How many diagonals are there in octagon?

Options:

- 1) 12
- 2) 14
- 3) 20
- 4) 24

Correct Answer: 20

QID : 268 - A square is inscribed in a quarter circle in such a way that two of its adjacent vertices on the radius are equidistant from the centre and other two vertices lie on the circumference. If the side of square is $\sqrt{5/2}$ cm, then what is the radius (in cm) of the circle?

Options:

- 1) 2
- 2) 2.5
- 3) 5
- 4) 10

Correct Answer: 2.5

QID : 269 - If $\sec^2 \theta + \tan^2 \theta = 5/3$, then what is the value of $\tan 2\theta$?

Options:

- 1) $2\sqrt{3}$
- 2) $\sqrt{3}$
- 3) $1/\sqrt{3}$
- 4) Cannot be determined

Correct Answer: $\sqrt{3}$

QID : 270 - A tower is broken at a point P above the ground. The top of the tower makes an angle 60° with the ground at Q. From another point R on the opposite side of Q angle of elevation of point P is 30° . If $QR = 180$ m, then what is the total height (in metres) of the tower?

Options:

- 1) 90
- 2) $45\sqrt{3}$
- 3) $45(\sqrt{3} + 1)$
- 4) $45(\sqrt{3} + 2)$

Correct Answer: $45(\sqrt{3} + 2)$

QID : 271 - If $\sin \theta + \sin 5\theta = \sin 3\theta$ and $0 < \theta < (\pi/2)$, then what is the value of θ (in degrees)?

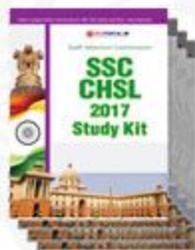
Options:

- 1) 30
- 2) 45
- 3) 60
- 4) 75

Correct Answer: 30

QID : 272 -

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The table given below represents the cost, revenue and tax rate for XYZ Limited for a period of 8 years. Cost and revenue are given in Rs '000 crores.

नीचे दी गई तालिका में XYZ लिमिटेड की 8 वर्षों की अवधि के लिए लागत, राजस्व तथा कर की दर को दर्शाया गया है। लागत तथा आय '000 करोड़ रु. में दी गई है।

Year वर्ष	Revenue राजस्व	Cost लागत	Tax rate कर की दर
Y1	800	600	20%
Y2	1100	850	22%
Y3	1200	900	22%
Y4	1200	950	25%
Y5	1350	1050	30%
Y6	1500	1200	30%
Y7	1600	1240	33%
Y8	1850	1400	15%

Profit for any year = revenue – cost

किसी वर्ष का लाभ = राजस्व – लागत

Profit after tax for any year = profit of that year – tax of that year

किसी वर्ष के लिए कर के बाद का लाभ = उस वर्ष का लाभ – उस वर्ष का कर

Tax on any year = tax rate of that year × profit of the year

किसी वर्ष का कर = उस वर्ष के कर की दर × उस वर्ष का लाभ

How much tax (in Rs '000 crores) was paid by XYZ limited in Y7?

Options:

- 1) 90
- 2) 99
- 3) 118.8
- 4) 126

Correct Answer: 118.8

QID : 273 -

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Which of the following is correct about profit after tax for year Y2, Y6 and Y8?

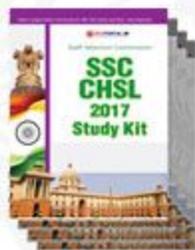
Options:

- 1) $Y8 > Y6 = Y2$
- 2) $Y6 > Y2 > Y8$
- 3) $Y8 > Y6 > Y2$
- 4) $Y6 = Y8 > Y2$

Correct Answer: $Y8 > Y6 > Y2$

QID : 274 -

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किसी वर्ष के लिए कर के बाद का लाभ = उस वर्ष का लाभ – उस वर्ष का कर

Tax on any year = tax rate of that year × profit of the year

किसी वर्ष का कर = उस वर्ष के कर की दर × उस वर्ष का लाभ

How many distinct values of yearly profit are there?

Options:

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

Correct Answer: 5

QID : 275 -

The table given below represents the cost, revenue and tax rate for XYZ Limited for a period of 8 years. Cost and revenue are given in Rs '000 crores.

नीचे दी गई तालिका में XYZ लिमिटेड की 8 वर्षों की अवधि के लिए लागत, राजस्व तथा कर की दर को दर्शाया गया है। लागत तथा आय '000 करोड़ रु. में दी गई है।

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किसी वर्ष का लाभ = राजस्व – लागत

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Tax on any year = tax rate of that year × profit of the year

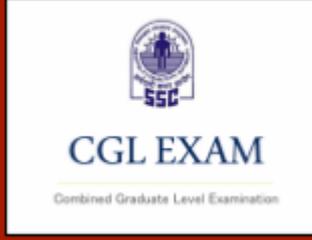
किसी वर्ष का कर = उस वर्ष के कर की दर × उस वर्ष का लाभ

What is the total sum (in '000 crores) of profit after tax for Y1 to Y8?

Options:

- 1) 1763.6
- 2) 1803.2
- 3) 1820.2
- 4) 1872.4

Correct Answer: 1820.2



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