



Ssc Cgl Tier II Previous Year Question Paper Overview

Here, you can solve all the questions asked in Ssc Cgl Tier II Previous Year Question Paper on 2019-09-11 in the Morning exam. The detailed solutions are also provided for every previous year question and some of these questions can be asked again in your Ssc Cgl Tier II exam. There are 100 questions in the exam and 120 minutes are provided for the Ssc Cgl Tier II exam. The Cutoff of the exam was 150 marks hence you should try to score at least 160 marks.

Ssc Cgl Tier II Previous Year Question Paper : Questions and Solutions

Question 1 :

The value of the expression $(\cos 6^\circ + \sin 6^\circ - 1)(\tan 2^\circ + \cot 2^\circ + 2)$ is?

Difficulty : Moderate

Average Time : 42 Seconds

Options :

1. 0
2. -1
3. -3
4. 1

Solution :

The correct answer is **option 3** i.e. -3.

Putting $\theta = 45^\circ$

$$= (\cos^6 \theta + \sin^6 \theta - 1)(\tan^2 \theta + \cot^2 \theta + 2)$$

$$= (1/8 + 1/8 - 1)(1 + 1 + 2)$$

$$= (-3/4)(4)$$

$$= -3$$

Question 2 :



If the diameter of the base of a cone is 42 cm and its curved surface area is 2310 cm², then what will be its volume (in cm³) ?

Difficulty : Moderate

Average Time : 60 Seconds

Options :

1. 25872
2. 19404
3. 12936
4. 38808

Solution :

The correct answer is option 3 ie 12936.

$$CSA = r l = 2310$$

$$r = 66 \quad [r = 21\text{cm}]$$

$$l = 2310 / 66 = 35$$

$$l = 35, h = 28$$

$$V = (1/3)r^2h = 12936 \text{ cm}^3$$

Question 3 :

If A is 28% more than B and C is 25% less than the sum of A and B, then by what percent will C be more than A (correct to one decimal place) ?

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. 32.2%
2. 28%
3. 43%
4. 33.6%

Solution :

The correct answer is option 4 ie 33.6%

A B C



$$\begin{aligned} & 128 \quad 100 \quad 171 \\ & = (171-128) / 128 \\ & = (43 / 128) \times 100 \\ & = 33.6\% \end{aligned}$$

Question 4 :

A sum of Rs 5000 is divided into two parts such that the simple interest on the first part for years at p.a. is double the simple interest on the second part for years at 4% p.a. What is the difference between the two parts?

Difficulty : Moderate**Average Time : 61 Seconds****Options :**

1. Rs 680
2. Rs 600
3. Rs 560
4. Rs 620

Solution :

The correct answer is **option 2** i.e. **Rs 600**.

$$\text{S.I. on 1st part} = 4 \frac{1}{5} \times 6 \frac{2}{3} \% = (21/5) \times (20/3) = 28\%$$

$$\text{I on second part} = (11/4) \times 4 = 11\%$$

$$28\% \text{ of } x = 2 \times 11\% \text{ of } y$$

$$x/y = 22/28 = 11/14$$

$$\text{Total parts} = 25 = 5000$$

$$1 \text{ part} = 200$$

$$\text{Difference} = 3 \text{ parts} = 3 \times 200 = 600$$

Question 5 :

If a cuboid of dimensions 32 cm × 12 cm × 9 cm is cut into two cubes of same size, what will be the ratio of the surface area of the cuboid to the total surface area of the two cubes?

Difficulty : Moderate**Average Time : 76 Seconds**

**Options :**

1. 65 : 72
2. 37 : 48
3. 24 : 35
4. 32 : 39

Solution :

The correct answer is option 1 ie 65 : 72

Explanation:

$$32 \text{ cm} \times 12 \text{ cm} \times 9 \text{ cm} = 2 \times a^3$$

$$a^3 = (32 \times 12 \times 9) / 2$$

$$a^3 = 12^3$$

$$a = 12$$

$$\text{T.S.A. of the cube} = 12 \times a^2$$

$$= 12 \times 12 \times 12 = 144$$

$$\text{T.S.A. of cuboid} = 2[(32 \times 9) + (9 \times 12) + (12 \times 32)]$$

$$= 2[(32 \times 9) + (9 \times 12) + (12 \times 32)]/12^3$$

$$= 130/144 = 65/72$$

Question 6 :

When x is added to each of 2, 3, 30 and 35, then the numbers obtained in this order, are in proportion. What is the mean proportional between $(x + 7)$ and $(x - 2)$?

Difficulty : Moderate

Average Time : 85 Seconds

Options :

1. 7
2. 4
3. 6



5

Solution :

The correct answer is option 3 ie 6.

$$\frac{x+2}{x+3} = \frac{x+30}{x+35}$$

$$\frac{5(x+2)}{5(x+3)} = \frac{x+30}{x+35}$$

$$5x + 10 = x + 30 \quad [\text{on comparing}]$$

$$x = 5$$

$$\sqrt{(x+7)(x-2)}$$

$$\sqrt{12 \times 3}$$

$$= 36 = 6$$

Question 7 :

If $5\sin - 4\cos = 0$, 0° 90° , then the value of is ?

Difficulty : Moderate

Average Time : 58 Seconds

Options :

1. $3/8$

2. $3/7$

3. $2/7$

4. $5/8$

Solution :

The correct answer is option 3 ie $2/7$.

$$5\sin - 4\cos = 0$$

$$(\sin / \cos) = 4/5$$

$$\tan = 4/5$$

$$5\tan = 4$$



Now,

$$\frac{5\sin\theta - 2\cos\theta}{5\sin\theta + 3\cos\theta}$$

$$\frac{5\tan\theta - 2}{5\tan\theta + 3}$$

$$= (4 - 2) / (4 + 3)$$

$$= 2/7$$

Question 8 :

If the radius of the base of a cone is doubled and the volume of the new cone is three times the volume of the original cone, then what will be the ratio of the height of the original cone to that of the new cone?

Difficulty : Moderate

Average Time : 67 Seconds

Options :

1. 1 : 3
2. 4 : 3
3. 2 : 9
4. 9 : 4

Solution :

The correct answer is option 2 ie 4 : 3

$$\frac{V_1}{V_2} = \left(\frac{r_1}{r_2}\right)^2 \times \frac{h_1}{h_2}$$

$$\frac{h_1}{h_2} = \frac{1}{3} \times \frac{4}{1}$$

$$\frac{h_1}{h_2} = \frac{4}{3}$$

Question 9 :

Abhi rows upstream a distance of 28 km in 4 hrs and rows downstream a distance of 50 km in 2hrs. To row a distance of 44.8 km in still water, he will take how much time ?

Difficulty : Moderate

Average Time : 48 Seconds

Options :



2.8 hrs

2. 3.2 hrs

3. 2.4 hrs

4. 2.2 hrs

Solution :

The correct answer is **option 1** i.e. **2.8 hrs**.

Upstream speed (S_u) = 7 km/hr

Downstream speed (S_d) = 25 km/hr

Speed of the boat = $(S_u + S_d) / 2$

= $(7 + 25) / 2$

= 16 km/hr

Time = $44.8 / 16 = 2.8$ hrs

**Question 10 :**

A train travelling at the speed of x km/hr, crossed a 200 m long platform in 30 seconds and overtook a man walking in the same direction at the speed of 6 km/hr in 20 seconds. What is the value of x ?

Difficulty : Moderate

Average Time : 65 Seconds

Options :

1. 50

2. 54

3. 56

4. 60

Solution :

The correct answer is **option 4** i.e. **60**.

Explanation:

Length of train = l



$$(5/18) \times x = (l + 200)/30 \quad \text{eq 1}$$

$$(5/18) (x - 6) = l/20$$

$$l = (100/18) (x - 6) \quad \text{eq 2}$$

Putting eq 2 in eq 1

$$30 \times (5/18) \times x = (100/18)x - (100/3) + 200$$

$$(50/18)x = 500/3$$

$$x = 180/3 = 60$$

Question 11 :

A and B started their journey from X to Y and Y to X, respectively. After crossing each other, A and B completed the remaining parts of their journey in 8 hrs respectively. If the speed of B is 28 km/hrs, then the speed (in km/hrs) of A is ?

Difficulty : Moderate

Average Time : 76 Seconds

Options :

1. 40

2. 42

3. 32

4. 36

Solution :

The correct answer is **option 3** i.e. **32**.

$$\frac{a}{b} = \left(\sqrt{\frac{tb}{ta}} \right)$$

$$\frac{A}{28} = \left(\sqrt{\frac{8}{\frac{49}{8}}} \right)$$

$$\frac{A}{28} = \frac{8}{7}$$



$$A = 32$$

Question 12 :

The given pie chart shows the breakup of total no. of employees of a company working in different offices (A, B, C, D and E) Total no. of employees = 2400 If 40% of number of employees in office A are shifted equally to office B and E, then what is the difference between the number of employees in B and that in C ?

Difficulty : Moderate**Average Time : 58 Seconds****Options :**

1. 72
2. 120
3. 82
4. 130

Solution :

The correct answer is option 1 ie 72.

20% of A (35%)

= 7%

Difference between B and C = 15% - 5%

= 10%

After employee transfer

C - B = 10 - 7

= 3%

$(3/100) \times 2400 = 72$

Question 13 :

The volume of a right pyramid is 453cm^3 and its base is an equilateral triangle with side 6 cm. What is the height (in cm) of the pyramid?

Difficulty : Moderate**Average Time : 58 Seconds****Options :**

1. 15



18

3. 12

4. 20

Solution :

The correct answer is option 1 ie 15.

$$V = (1/3) \times B \times H$$

$$V = (1/3) \times 93 \times H$$

$$453 = 33 (H)$$

$$H = 15$$

Question 14 :

A certain number of persons can complete a work in 34 days, working 9hrs a day. If the number of persons is decreased by 40%, then how many hours a day should the remaining persons work to complete the work in 51 days ?

Difficulty : Moderate**Average Time : 53 Seconds****Options :**

1. 9

2. 8

3. 12

4. 10

Solution :

The correct answer is option 4 ie 10.

$$x \times 34 \times 9 = 0.6x \times h \times 51$$

$$h = \frac{x \times 34 \times 9}{0.6x \times 51}$$

$$h = 10$$

Question 15 :

The bar graph shows the exports of cars of type A and B (in Rsmillions). The total export of cars of type A in 2014 to 2017 is approximately what percentage less than the total exports of cars of type B in 2015 to 2018?



Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. 31.3
2. 30.4
3. 14.3
4. 23.8

Solution :

The correct answer is option 4 ie 23.8

Exports of A (2014 to 2017) = 800

Exports of B (2015 to 2018) = 1050

% decrease = $(250 / 1050) \times 100$

= 23.8%

Question 16 :

If the radius of the sphere is increased by 4 cm, its surface area is increased by 464 cm² . What is the volume (in cm³) of the original sphere?

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. (15625/6)
2. (35937/8)
3. (11979/2)
4. (15625/8)

Solution :

The correct answer is **option 1** i.e. (15625/6)

Surface Area = $4r^2$ (where r is radius of sphere)

Difference = $4 [(r + 4)^2 - r^2] = 464$

$(r + 4)^2 - r^2 = 116$



$$(2r + 4) (4) = 116$$

$$r = 25/2$$

Hence,

$$\text{Volume} = (4/3) (25/2)^3 = (15625/6) \text{ cm}^3$$

Question 17 :

The sum of the digits of a two digit number is $(1/7)$ of the number. The units digit is 4 less than the tens digit. If the number obtained on reversing its digit is divided by 7, the remainder will be ?

Difficulty : Moderate

Average Time : 74 Seconds

Options :

1. 4
2. 5
3. 1
4. 6

Solution :

The correct answer is option 4 ie 6.

$$(a + b) = 1/7 [10a + b]$$

$$7a + b = 10a + b$$

$$3a = 6b$$

$$a : b = 2 : 1$$

$$a = 8, b = 4$$

$$\text{No.} = 84$$

$$\text{Reverse} = 48$$

$$48/7 = \left(6\frac{6}{7}\right)$$

$$\text{Remainder} = 6$$

Question 18 :

The graph of the equation $x - 7y = -42$, intersects the y-axis at P (,) and the graph of $6x + y - 15 = 0$, intersects the x-axis

at Q (,). What is the value of + + + ?

Difficulty : Moderate

Average Time : 69 Seconds

Options :

1. $17/2$
2. 6
3. $9/2$
4. 5

Solution :

The correct answer is **option 1** i.e. $17/2$

$$x - 7y = -42 \quad \text{eq1}$$

$$6x + y - 15 = 0 \quad \text{eq2}$$

eq1 intersects at y-axis, ie x coordinate = 0

$$(,) = = 0, = -6$$

eq2 intersects at x-axis, ie y coordinate = 0

$$(,) = = 0, = 5/2$$

$$\text{Value of } + + + = 0 + 6 + 0 + 5/2$$

$$= 6 + 5/2$$

$$= 17/2$$

Question 19 :

In quadrilateral ABCD, the bisectors of A and B meet at O and $\angle AOB = 64^\circ$. $\angle C + \angle D$ is equal to?

Difficulty : Moderate

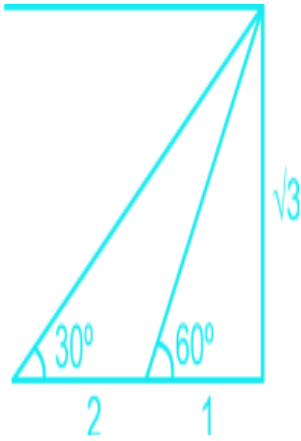
Average Time : 80 Seconds

Options :

1. 136°
2. 128°
3. 116°
4. 148°

Solution :

The correct answer is **option 2** i.e. **128°**.



$$(A/2) + (B/2) + 64^\circ = 180^\circ$$

$$(A + B)/2 = 116^\circ$$

$$A + B = 232^\circ$$

Now,

$$C + D = 360^\circ - (A + B)$$

$$C + D = 360^\circ - 232^\circ = 128^\circ$$

Question 20 :

'A' started a business with a capital of Rs 54,000 and admitted 'B' and 'C' after 4 months and 6 months, respectively. At the end of the year, the profit was divided in the ratio 1 : 4 : 5. What is the difference between the capitals invested by 'B' and 'C'?

Difficulty : Moderate

Average Time : 78 Seconds

Options :

1. Rs 1,08,000
2. Rs 1,62,000
3. Rs 2,16,000
4. Rs 3,24,000

Solution :

The correct answer is **option 3** i.e. **Rs 2,16,000**.

	A	B	C
T	6	4	3
I	1/6	1	5/3

P	1	4	5
	A	B	C
I	1	6	10

$$\begin{aligned} \text{Difference B and C} &= 4 \times 54000 \\ &= 216000 \end{aligned}$$

Question 21 :

Let $x = (633)^{24} - (277)^{38} + (266)^{54}$. What is the unit digit of x ?

Difficulty : Moderate

Average Time : 86 Seconds

Options :

- 7
- 6
- 4
- 8

Solution :

The correct answer is **option 4** i.e. **8**.

$$x = (633)^{24} - (277)^{38} + (266)^{54}$$

is of the form

$$x = 3^{4x} - 7^{4x+2} + 6$$

$$x = 1 - 9 + 6$$

$$x = 7 - 9 \quad [17 - 9] \text{ for unit digit}$$

$$x = 8$$

Question 22 :



If each interior angle of a regular polygon is $128\frac{4}{7}^\circ$, then what is the sum of the number of its diagonals and the number of its sides?

Difficulty : Moderate

Average Time : 60 Seconds

Options :

1. 15

2. 19

3. 17

4. 21

Solution :

The correct answer is option 4 i.e. 21

$$\text{Interior angle} = \left(128\frac{4}{7}\right)^\circ = (900/7)^\circ$$

$$(n - 2)/n \times 180 = (900/7)$$

$$(n - 2) = 5n/7$$

$$7n - 14 = 5n$$

$$n = 7 \text{ [No. of sides]}$$

Hence, $n = 7$

$$\text{No. of diagonals} = [n(n - 3)]/2 = [(7 \times 4)]/2 = 14$$

Hence,

$$\text{Sum of the number of diagonals and number of sides} = 14 + 7 = 21$$

Question 23 :

An article is sold at a certain price. If it is sold at $x\%$ of this price, there is a loss of $y\%$. What is the percentage profit when it is sold at 60% of the original price?

Difficulty : Moderate

Average Time : 92 Seconds

Options :

1. 20%



30%

3. $33\frac{1}{3}\%$

4. $17\frac{1}{3}\%$

Solution :

The correct answer is option 1 i.e. 20%

$$SP/3 = (2/3) CP$$

$$SP = 2 CP$$

$$60\% \text{ of } SP = 1.2 CP$$

$$= 1CP + (20/100)CP = 20\%$$

**Question 24 :**

If $a^3 + b^3 = 218$ and $a + b = 2$, then the value of ab is ?

Difficulty : Moderate**Average Time : 56 Seconds****Options :**

1. 34

2. -35

3. -31

4. 32

Solution :

The correct answer is option 2 ie -35

$$a^3 + b^3 = 218 \text{ [value putting]}$$

$$a + b = 2$$

$$7 - 5 = 2$$

$$a = 7, b = -5$$



$$ab = 7(-5) = -35$$

Question 25 :

If , then the value of $A^2 + B^2 - C^2$ is?

Difficulty : Moderate**Average Time : 49 Seconds****Options :**

1. 11

2. 7

3. 19

4. 10

Solution :

The correct answer is **option 2** i.e. 7.

$$2\sqrt{2}x^3 - 3\sqrt{3}y^3 = (\sqrt{2}x - \sqrt{3}y)(Ax^2 + By^2 + Cxy)$$

$$\frac{(\sqrt{2}x)^3 - (\sqrt{3}y)^3}{(\sqrt{2}x - \sqrt{3}y)} = (Ax^2 + By^2 + Cxy)$$

$$2x^2 + 3y^2 + 6xy$$

$$A = 2, B = 3, C = 6$$

$$A^2 + B^2 - C^2 = 4 + 9 - 6$$

$$= 7$$

Question 26 :

A circle is inscribed in triangle ABC, touching AB, BC and AC at the points P, Q and R , respectively. If $AB - BC = 4$ cm, $AB - AC = 2$ cm and the perimeter of triangle ABC = 32 cm, then $PB + AR$ is equal to:

Difficulty : Moderate**Average Time : 72 Seconds****Options :**

1. 12 cm

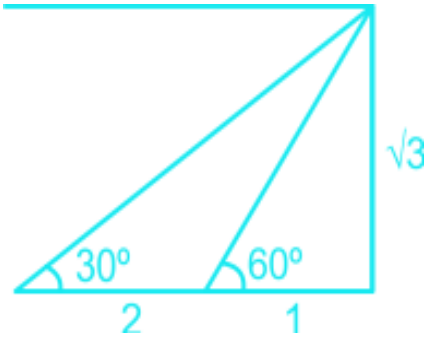
2. 13 cm

3. $(33/5)$ cm

(38/3) cm

Solution :

The correct answer is option 4 i.e. (38/3) cm.



Given: $AB - BC = 4$ cm, $AB - AC = 2$ cm and perimeter = 32 cm

We can write:

$a + b + c = 32$ (1)

$c - b = 2$ (2)

$c - a = 4$ (3)

Adding all 3 equations:

$3c = 38$

$c = 38/3$

Question 27 :

Three solid metallic spheres whose radii are 1 cm, x cm, and 8 cm, are melted and recast into a single solid sphere of diameter 18 cm. The surface area (in cm^2) of the sphere with radius x cm is?

Difficulty : Moderate

Average Time : 84 Seconds

Options :

- 1. 144
- 2. 72
- 3. 64
- 4. 100

Solution :



The correct answer is option 1 ie 144 .

$$V = (4/3) R^3 = (4/3) (r_1^3 + r_2^3 + r_3^3)$$

$$9^3 = 1^3 + x^3 + 8^3$$

$$x^3 = 729 - 513$$

$$x = 6$$

$$S.A. = 4r^2$$

$$= 4 \times 36$$

$$= 144$$

Question 28 :

Chord AB of a circle is produced to a point P and C is a point on the circle such that PC is a tangent to the circle. If PC = 18 cm and BP = 15 cm, then AB is equal to:

Difficulty : Moderate

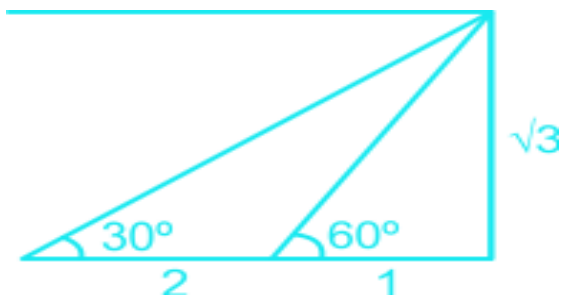
Average Time : 70 Seconds

Options :

1. 5.8 cm
2. 6.2 cm
3. 6.6 cm
4. 8.5 cm

Solution :

The correct answer is option 3 i.e. **6.6 cm**



We can write:

$$PA \times PB = PC^2$$



$$PA = (18 \times 18)/15$$

$$PA = 21.6$$

Hence,

$$AB = PA - PB = 21.6 - 15 = 6.6 \text{ cm}$$

Question 29 :

A and B can do a piece of work in 6 days and 8 days respectively. With the help of C, they complete the work in 3 days and earned Rs1848. What was the share of C ?

Difficulty : Moderate

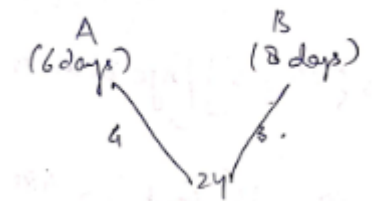
Average Time : 76 Seconds

Options :

1. Rs 231
2. Rs 924
3. Rs 462
4. Rs 693

Solution :

The correct ans is option 1 ie Rs 231.



$$A = 4 \text{ units/day}$$

$$B = 3 \text{ units/day}$$

$$\text{Time to complete the work with the help of C} = 24/x = 3$$

$$x = 8$$

$$A + B + C\text{'s work} = 8$$

$$4 + 3 + C\text{'s} = 8$$

$$C\text{'s} = 8 - 7$$



$$C = 1$$

$$\text{Share of } C = (1/8) \times 1848 = 231$$

Question 30 :

If $(a + b) : (b + c) : (c + a) = 7 : 6 : 5$ and $a + b + c = 27$, then what will be the value of $(1/a) : (1/b) : (1/c)$?

Difficulty : Moderate**Average Time : 71 Seconds****Options :**

1. 3 : 6 : 4
2. 3 : 2 : 4
3. 4 : 3 : 6
4. 3 : 4 : 2

Solution :

The correct answer is option 3 ie 4 : 3 : 6.

$$(a + b) : (b + c) : (c + a) = 7 : 6 : 5$$

$$2(a + b + c) = 18$$

$$a + b + c = 9$$

$$a : b : c$$

$$3 : 4 : 2$$

$$(1/a) : (1/b) : (1/c) = (1/3) : (1/4) : (1/2)$$

$$= 4 : 3 : 6$$

Question 31 :

A shopkeeper bought 120 quintals of wheat. 20% of it was sold at 25% loss. At what percent shopkeeper should sell the rest to gain 25% on the whole transaction ?

Difficulty : Moderate**Average Time : 61 Seconds****Options :**

1. 36.5
2. 40



37.5

4. 35

Solution :

The correct answer is option 3 ie 37.5

120 quintals in 5 parts = 24 quintals each

$$x = (50/4) = 12.5\%$$

$$25 + x = 37.5\%$$

Question 32 :

The ratio of investment by A to that by B in a business is 14 : 15 and the ratio of their respective profits at the end of a year is 2 : 5. If A invested the money for 3 months, then for how much time (in months) B invested his money?

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. 7

2. 6

3. 5

4. 9

Solution :

The correct answer is option 1 ie 7.

Investment ratio = 14 : 15

Time ratio = 3 : y = 7

Profit ratio = 2 : 5 [multiply by 21]

$$14 \times 3 = 42$$

$$42 / 2 = 21$$

$$y = 7$$

Question 33 :



The value of $\left(\left(2\frac{6}{7}\right) \text{ ext\{of\} } 4\frac{1}{5} \div \frac{2}{3}\right) \text{ imes } 1\frac{1}{9} \div \left(\frac{3}{4} \text{ imes } 2\frac{2}{3} \text{ ext\{of\} } \frac{1}{2}\right) \div \frac{1}{4}$ is?

Difficulty : Moderate

Average Time : 54 Seconds

Options :

- 5
- 8
- $\frac{1}{8}$
- $\frac{1}{5}$

Solution :

The correct answer is **option 1** i.e. **5**.

$$\left(\left(2\frac{6}{7}\right) \text{ ext\{of\} } 4\frac{1}{5} \div \frac{2}{3}\right) \text{ times } 1\frac{1}{9} \div \left(\frac{3}{4} \text{ times } 2\frac{2}{3} \text{ ext\{of\} } \frac{1}{2}\right) \div \frac{1}{4}$$

$$\left(\left(\frac{20}{7}\right) \text{ ext\{of\} } \frac{21}{5} \div \frac{2}{3}\right) \text{ times } \frac{10}{9} \div \left(\frac{3}{4} \text{ times } \frac{8}{3} \text{ ext\{of\} } \frac{1}{2}\right) \div \frac{1}{4}$$

$$\left(\left(12 \div \frac{2}{3}\right) \text{ times } \frac{10}{9} \div \left(\frac{3}{4} \text{ times } \frac{4}{3}\right) \div \frac{1}{4}\right)$$

$$\left(\left(18 \text{ times } \frac{10}{9}\right) \div 1 \div \frac{1}{4}\right)$$

$$\left(18 \text{ times } \frac{10}{36}\right) = 5$$

Question 34 :

A sum of Rs 8400 amounts to Rs 11046 at 8.75% p.a. simple interest in certain time. What is the simple interest on the sum of Rs 9600 at the same rate for the same time?

Difficulty : Moderate

Average Time : 65 Seconds

Options :

- Rs 2990
- Rs 3012
- Rs 2686
- Rs 3024

Solution :



The correct answer is **option 4** i.e. **Rs 3024**.

$$11046 = (8400 \times 8.75 \times t) / 100$$

$$t = 11046 / 84 \times 8.75$$

$$= 15.02$$

$$A = (9600 \times 8.75 \times 15.02) / 100$$

$$= 12624$$

$$I = A - P$$

$$= 12624 - 9600$$

$$= \text{Rs } 3024$$

Question 35 :

The value of ?

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. 7.8

2. 4.6

3. 8.7

4. 6.4

Solution :

The correct answer is option 4 ie 6.4

$$\frac{7 + 8 \times 8 \div 8 \text{ of } 8 + 8 \div 8 \times 4 \text{ of } 4}{4 \div 4 \text{ of } 4 + 4 \times 4 \div 4 - 4 \div 4 \text{ of } 2} \quad [\text{Applying BODMAS}]$$

$$\frac{7 + 1 + 6}{\frac{1}{4} + 4 - \frac{1}{2}}$$

$$= \frac{24}{4 - \frac{1}{4}}$$

$$= 96/15$$



= 6.4

Question 36 :

The bar graph shows the exports of Cars of type A and B (in Rs. million). In which year the exports of car of type A was around 10% less than the average exports (per year) of cars of type B over the 5 years?

Difficulty : Moderate

Average Time : 70 Seconds

Options :

1. 2015
2. 2017
3. 2014
4. 2016

Solution :

The correct answer is option 3 ie 2014.

The question has been modified since it was incorrect according to the answer key released by the SSC.

Average of type A = $1100/5 = 220$

Around 10% less

$220 - (10 / 100) \times 220 = 220 - 22$

= 198

In the year 2014, the export was 200 which is around 10% less than the average exports.

Question 37 :

If $\sin \theta = 3 \cos \theta$, $0^\circ < \theta < 90^\circ$, then the value of $2\sin^2 \theta + \sec^2 \theta + \sin \theta \sec \theta + \cos \theta \csc \theta$ is?

Difficulty : Moderate

Average Time : 62 Seconds

Options :

1. $(33 + 103)/6$
2. $(19 + 103)/6$
3. $(33 + 103)/3$



$$(19 + 103)/3$$

Solution :

The correct answer is **option 1** i.e. $(33 + 103)/6$

$$\sin = 3\cos$$

$$\sin/\cos = 3$$

$$\tan = 3$$

$$= 60^\circ$$

Now, substitute the value of $= 60^\circ$ in the given equation:

$$2 \times \sin^2 60^\circ + \sec^2 60^\circ + \sin 60^\circ \times \sec 60^\circ + \operatorname{cosec} 60^\circ$$

$$2 \times (3/4) + 4 + (3/2) \times 2 + (2/3)$$

$$(33 + 103)/6$$

Question 38 :

To do a certain work, the ratio of efficiency of A to that of B is 3:7. Working together, they can complete the work in 10.5 days. They work together for 8 days. 60% of the remaining work will be completed by A alone in ?

Difficulty : Moderate

Average Time : 112 Seconds

Options :

1. 5.5 days

2. 5 days

3. 6.6 days

4. 4 days

Solution :

The correct answer is option 2 ie 5 days.

$$\text{Efficiency ratio of A : B} = 3 : 7$$

$$\text{Work by A in 1 day} = 5 \text{ units}$$

$$\text{Work by B in 1 day} = 7 \text{ units}$$

$$\text{Work remaining} = (10.5 - 8) \times 10 = 25 \text{ units}$$



$$= (60/100) \times 25 = 15 \text{ units}$$

Time taken by A = $15/3 = 5$ days

Question 39 :

The average of thirteen numbers is 47. The average of first 3 numbers is 39 and that of next 7 numbers is 49. The 11th number is two times the 12th number and 12th number is 3 less than the 13th number. What is the average of 11th and 13th numbers?

Difficulty : Moderate

Average Time : 71 Seconds

Options :

1. 54.5
2. 57
3. 56
4. 55.5

Solution :

The correct answer is option 2 ie 57.

$$= (\text{sum of 13 numbers}) / 13 = 47$$

$$\text{Avg. of first 3 numbers} = 39$$

$$\text{Avg. of next 7 numbers} = 49$$

Let the 12th number be x.

$$\text{Then, 11th number} = 2x.$$

$$13^{\text{th}} \text{ number} = x+3$$

Now,

$$(39 \times 3) + (49 \times 7) + 3x + (x + 3) = 47 \times 13$$

$$4x + 120 + 343 = 47 \times 13$$

$$4x = 148$$

$$x = 37$$

$$\text{Avg. of 11^{th}} and 13^{th}} number} = (2x + x + 3) / 2$$



$$= [3(37) + 1] / 2$$

$$= 57$$

Question 40 :

The bar graph show the exports of cars of type A and B (in Rs millions). What is the ratio of the total exports of cars of type A in 2014 and 2018 to the total exports of cars of type B in 2015 and 2016 ?

Difficulty : Moderate**Average Time : 86 Seconds****Options :**

1. 11 : 10
2. 10 : 9
3. 5 : 4
4. 3 : 2

Solution :

The correct answer is option 2 ie 10 : 9.

$$A (2014 \text{ and } 2018) = 500$$

$$B (2015 \text{ and } 2016) = 450$$

$$\text{Ratio} = 500/450$$

$$= 10/9$$

hence, 10 : 9

Question 41 :

If $x^8 - 144x^4 + 1 = 0$, then a possible value of x is ?

Difficulty : Moderate**Average Time : 48 Seconds****Options :**

1. 5
2. 8
3. 4
4. 6

Solution :



The correct answer is option 4 ie 6.

$$x^8 + 1 = 1442x^4$$

dividing by x^4

$$x^4 + \frac{1}{x^4} = 1442$$

$$x^2 + \frac{1}{x^2} = \sqrt{1442}$$

$$x^2 + \frac{1}{x^2} = 38$$

$$x - \frac{1}{x} = \sqrt{38 - 2}$$

= 6

Question 42 :

The graphs of the equations $3x + y - 5 = 0$ and $2x - y - 5 = 0$ intersect at the point P (,). What is the value of $(3 +)$?

Difficulty : Moderate

Average Time : 54 Seconds

Options :

1. 4

2. -4

3. 3

4. 5

Solution :

The correct answer is option 4 ie 5.

$$3x + y - 5 = 0 \quad \text{eq 1}$$

$$2x - y - 5 = 0 \quad \text{eq 2}$$

Solving eq 1 and eq 2 , we get

$$x = 2 =$$

$$y = -1 =$$

$$3 \times () + () = 3(2) - 1$$

$$= 6 - 1$$

$$= 5$$

Question 43 :

If, then what will be the value of, correct to one decimal place.

Difficulty : Moderate**Average Time : 61 Seconds****Options :**

1. 8.4

2. 8.2

3. 7.8

4. 7.2

Solution :

The correct answer is option 3 ie 7.8

$$\sqrt{86 - 60\sqrt{2}} = \sqrt{[(6)^2 + (5\sqrt{2})^2 - 2 \times 6 \times 5\sqrt{2}]}$$

$$\sqrt{6 - 5\sqrt{2}}$$

$$= (6 - 52)$$

$$= a = 6$$

$$= b = 5$$

$$\sqrt{6^2 + 5^2} = \sqrt{36 + 25}$$

$$= 61 = 7.8$$

Question 44 :

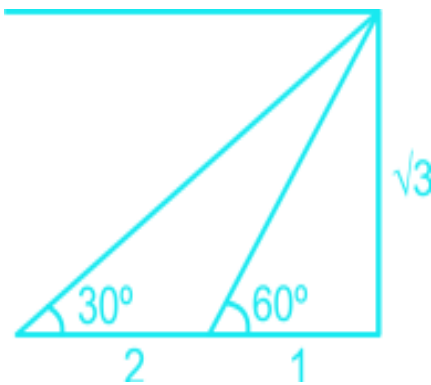
The sides AB and AC of $\triangle ABC$ are produced to P and Q respectively. The bisectors of $\angle CBP$ and $\angle BCQ$ meet at R. If the measure of $\angle A$ is 44° , then what is the measure of $\angle BRC$?

Difficulty : Moderate**Average Time : 66 Seconds****Options :**

- 33°
- 2. 38°
- 3. 34°
- 4. 32°

Solution :

The correct answer is option 3 i.e. 34°.



$$BRC = 90^\circ - (A/2)$$

$$BRC = 90^\circ - (44^\circ/2)$$

$$BRC = 68^\circ$$

Hence,

$$1/2 BRC = 68^\circ/2 = 34^\circ$$

Question 45 :

In ABC, D is a point on side BC such that ADC = BAC. If CA = 12 cm, CB = 8 cm, then CD is equal to:

Difficulty : Moderate

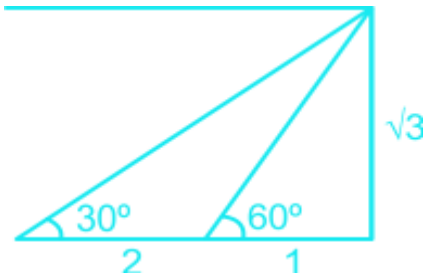
Average Time : 73 Seconds

Options :

- 1. 12 cm
- 2. 15 cm
- 3. 18 cm
- 4. 16 cm

Solution :

The correct answer is **option 3** i.e. **18 cm**.



In $\triangle ADC$ and $\triangle BAC$:

$\angle C = \angle C$ = Common

$\angle ADC = \angle BAC$

By AA criterion, Both the triangles are similar.

Let us assume $AC = x$

Then, $\triangle ADC \sim \triangle BAC$ (Similar triangles)

$$\frac{AC}{BC} = \frac{2}{8} = \frac{x}{5}$$

Then,

$$x : 5 = 2 : 8 \text{ (By similar triangle property)}$$

$$x = 18 \text{ cm}$$

Question 46 :

A person marks his goods $x\%$ above the cost price and allows a discount of 30% on the marked price. If his profit is 5% , then value of x will be?

Difficulty : Moderate

Average Time : 85 Seconds

Options :

1. 50%
2. 60%
3. 45%
4. 35%

Solution :



The correct answer is **option 1** i.e. **50%**

Let us assume the cost price to be 100

Then, according to the question

$$SP = 105 \text{ (5\% profit)}$$

$$MP - (30/100) \times MP = 105$$

$$x - (3/10) \times x = 105$$

$$10x - 3x = 1050$$

$$x = 1050/7$$

$$x = 150$$

$$\text{Marked price} = 150 - 100$$

$$= 50\%$$

Question 47 :

If $a^2 + b^2 + c^2 + 96 = 8(a + b - 2c)$, then is equal to ?

Difficulty : Moderate

Average Time : 63 Seconds

Options :

1. 6
2. 22
3. 4
4. 23

Solution :

The correct answer is option 3 ie 4.

$$a^2 + b^2 + c^2 + 96 = 8a + 8b - 16c$$

$$(a^2 - 8a + 16) + (b^2 - 8b + 16) + (c^2 + 16c + 64) = 0$$

$$(a - 4)^2 + (b - 4)^2 + (c + 8)^2 = 0$$

$$a = b = 4$$

$$c = -8$$



Now,

$$\begin{aligned} & \sqrt{4(4) - 4(-8) + 4(8)} \\ &= 16 \\ &= 4 \end{aligned}$$

Question 48 :

A right circular cylinder of maximum volume is cut out from a solid wooden cube. The material left is what percent of the volume (nearest to an integer) of the original cube ?

Difficulty : Moderate

Average Time : 74 Seconds

Options :

1. 19
2. 28
3. 23
4. 21

Solution :

The correct answer is option 4 ie 21.

$$\text{Radius} = a/2$$

$$\text{Height} = a$$

$$\text{Volume of cylinder} = r^2h$$

$$= \pi \times (a^2/4) \times a$$

$$= \pi \times (a^3/4)$$

$$a^3 - \pi \frac{a^3}{4} = \frac{4a^3 - 3.14a^3}{4}$$

$$= 0.21a^3$$

Hence, 0.21 = 21

Question 49 :

The ratio of the volumes of two cylinder is x : y and the ratio of their diameters is a : b. What is the ratio of their heights ?

**Difficulty : Moderate****Average Time : 67 Seconds****Options :**

1. $xb : ya$
2. $xa : yb$
3. $xb^2 : ya^2$
4. $xa^2 : yb^2$

Solution :

The correct answer is option 3 ie $xb^2 : ya^2$.

$$V_1 / V_2 = x / y$$

$$(r_1/r_2)^2 \times (h_1/h_2) = x/y$$

$$(a^2/b^2) \times (h_1/h_2) = x/y$$

$$h_1/h_2 = xb^2/ya^2$$

Question 50 :

If $x + y + z = 11$, $x^2 + y^2 + z^2 = 133$ and $x^3 + y^3 + z^3 = 881$, then the value of xyz is ?

Difficulty : Moderate**Average Time : 65 Seconds****Options :**

1. -6
2. 6
3. -8
4. 8

Solution :

The correct answer is option 1 ie -6.

$$x + y + z = 11 \quad \text{eq 1}$$

$$x^2 + y^2 + z^2 = 133 \quad \text{eq 2}$$

$$x^3 + y^3 + z^3 = 881 \quad \text{eq 3}$$

Lets assume



$$[x = \pm 4, y = \pm 6, z = 9]$$

Putting in eq 1

We get the combination as:

$$[x = -4, y = 6, z = 9]$$

$$\sqrt[3]{x \times y \times z} = \sqrt{-4 \times 6 \times 9}$$

$$\sqrt[3]{216}$$

$$= -6$$

Question 51 :

The value of is ?

Difficulty : Moderate

Average Time : 75 Seconds

Options :

1. $0.\overline{32}$

2. $0.\overline{412}$

3. $0.\overline{31}$

4. $0.4\overline{12}$

Solution :

The correct answer is option 4 ie $0.4\overline{12}$.

$$= 22.\overline{4} + 11.5\overline{67} - 33.5\overline{9}$$

$$= 0.\overline{4} + 0.5\overline{67} + 0.5\overline{9}$$

$$= (4/9) + [(567-5)]/990 - (59/90)$$

$$= 0.408/990$$

$$= 0.4\overline{12}$$

Question 52 :

Anu sold an article for Rs.480 at some profit. Had she sold it for Rs400. Then there would have been a loss equal to one-third of the initial profit. What was the cost price of the article ?

Difficulty : Moderate

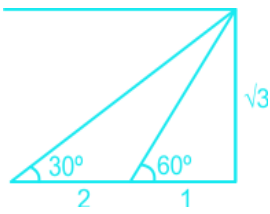
Average Time : 89 Seconds

Options :

1. Rs 450
2. Rs 430
3. Rs 425
4. Rs 420

Solution :

The correct answer is **option 4** i.e. **Rs 420**.



$$-k - 3k = 400 - 480$$

$$k = 20$$

$$x = 400 + k$$

$$= 400 + 20$$

$$= 420$$

Question 53 :

In a school, $\frac{4}{9}$ of the number of students are girls and the rest are boys. $\frac{3}{5}$ of the number of boys are below 12 years of age and $\frac{5}{12}$ of the number of the girls are 12 years or above 12 years of age. If the number of students below 12 years of age is 480, then $\frac{5}{18}$ of the total number of students in the school will be equal to ?

Difficulty : Moderate

Average Time : 71 Seconds

Options :

1. 270
2. 315



225

4. 240

Solution :

The correct answer is option 3 ie 225.

G : B

4 : 5 [Given: (girls/boys) = 4/5]

$[(7/12) \times 4] :$ $[(3/5) \times 5]$

7/3 : 3 [Age below 12]

7 : 9

16 parts = 480

1 part = $480/16 = 30$

= $(5/18) \times 27 \times 30$

= 225

**Question 54 :**

is equal to ?

Difficulty : Moderate

Average Time : 71 Seconds

Options :

1. $1 + \sin A - \cos A$

2. $1 - \sin A \cos A$

3. $1 + \cos A - \sin A$

4. $1 + \sin A \cos A$

Solution :

The correct answer is option 1 ie $1 + \sin A - \cos A$.

Putting the value of $A = 90^\circ$



$$\frac{(2 \sin 90^\circ)(1 + \sin 90^\circ)}{1 + \sin 90^\circ + \cos 90^\circ}$$

$$= (2/2) \times 2 = 2$$

$$= 1 + \sin 90^\circ - \cos 90^\circ = 2$$

Question 55 :

The given pie chart shows the breakup of total number of the employees of a company working in different offices (A, B, C, D and E) Total number of employees = 2400 What is the number of offices in which the number of employees of the company is between 350 and 650 ?

Difficulty : Moderate**Average Time : 64 Seconds****Options :**

1. 1
2. 4
3. 2
4. 3

Solution :

The correct answer is option 4 ie 3.

Total number of employees = 2400

100% = 2400

350 employees = 14%

650 employees = 25%

Total number of offices = 3

Question 56 :

A sum of Rs 18000 is lent at 10% p.a. compound interest, compounded annually. What is the difference between the compound interest for 3rd year and 4th year?

Difficulty : Moderate**Average Time : 50 Seconds****Options :**

1. Rs 220.60



Rs 217.80

3. Rs 221.80

4. Rs 215.40

Solution :

The correct answer is **option 2** i.e. **Rs 217.80**

1st yr = 10%

2nd yr = 11%

3rd yr = 12.1%

4th yr = 13.31%

Difference = $(1.21 \times 18000) / 100$

= 1.21×180

= 217.80

Question 57 :

What is the value of $\operatorname{cosec}(65^\circ +) - \sec(25^\circ -) + \tan 220^\circ - \operatorname{cosec} 270^\circ$?

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. 0

2. 1

3. 2

4. -1

Solution :

The correct answer is **option 4** i.e. **-1**.

$$= \operatorname{cosec}(65^\circ +) - \sec(25^\circ -) + \tan^2 20^\circ - \operatorname{cosec}^2 70^\circ$$

$$= \operatorname{cosec}(65^\circ +) - \operatorname{cosec}\{90^\circ - (25^\circ -)\} + \tan^2 20^\circ - \operatorname{cosec}^2 70^\circ$$

$$= \operatorname{cosec}(65^\circ +) - \operatorname{cosec}(65^\circ +) + \tan^2 20^\circ - \operatorname{cosec}^2 70^\circ$$

$$= \tan^2 20^\circ - \sec^2 20^\circ$$



= -1

Question 58 :

Pipes A, B and C can fill a tank in 30hrs, 40hrs and 60hrs respectively, Pipes A, B and C are opened at 7am, 8am and 10am respectively on the same day. When will the tank be full ?

Difficulty : Moderate

Average Time : 70 Seconds

Options :

1. 10.00 p.m.
2. 10.20 p.m
3. 9.20 p.m
4. 9.40 p.m

Solution :

The correct answer is option 3 ie 9.20 p.m

A = 30

B = 40

C = 60

LCM = 120 [A = 4, B = 3, C = 2]

A was opened at 7 a.m. work done per hour = 4 units

B was opened at 8 a.m. work done per hour = 3 units

C was opened at 10 a.m. work done per hour = 2 units

Units completed by A + B till 10 a.m. = $(4 \times 3) + (3 \times 2)$

$$= 12 + 6 = 18 \text{ units}$$

work left = $120 - 18 = 102$

Time taken = $102/9 = 11\text{hrs } 20 \text{ min}$

= 9.20 p.m.

Question 59 :

If the radius of the right circular cylinder is decreased by 20% while its height is increased by 40%, then the percentage change in its volume will be ?



Difficulty : Moderate

Average Time : 93 Seconds

Options :

1. 1.04% increase
2. 10.4% decrease
3. No increase or decrease
4. 10.4% increase

Solution :

The correct answer is option 2 ie 10.4% decrease.

$$r^2h$$

$$r_1^2h_1$$

$$\times (0.8)^2 \times 1.4$$

$$\times 0.896$$

$$100 = 89.6$$

10.4% decrease

Question 60 :

The number of students in a class is 75, out of which are boys and the rest are girls. The average score in mathematics of the boys is more than that of the girls. If the average score of all the students is 66, then the average score of the girls is ?

Difficulty : Moderate

Average Time : 74 Seconds

Options :

1. 52
2. 55
3. 54
4. 58

Solution :

The correct answer is option 3 ie 54.

Boys : Girls

$$1 : 2$$

$$5x : 3x$$

$$(5x+6x) / 3 = 66$$

$$11x = 198$$

$$x = 18$$

$$3x = 18 \times 3 = 54$$

Question 61 :

A shopkeeper allows 28% discount on the marked price of an article and still makes a profit of 20%. If he gains Rs 30.80 on the sale of one article, then what will be the cost price of the article?

Difficulty : Moderate**Average Time : 66 Seconds****Options :**

1. Rs164
2. Rs145
3. Rs160
4. Rs154

Solution :

The correct answer is **option 4** i.e. **Rs 154**.

$$20\% \text{ of } x = 30.80$$

$$100\% \text{ of } x = 30.80 \times 5$$

$$x = \text{CP} = \text{Rs } 154$$

Question 62 :

In ABC, $A = 52^\circ$ and O is the orthocenter of the triangle (BO and CO meet AC and AB at E and F respectively when produced). If the bisectors of OBC and OCB meet at P, then the measure of BPC is ?

Difficulty : Moderate**Average Time : 52 Seconds****Options :**

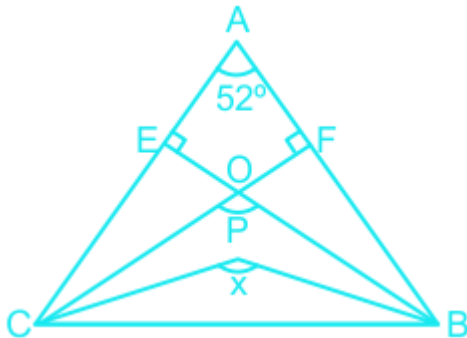
1. 124°
2. 132°

138°

4. 154°

Solution :

The correct answer is option 4 i.e. 154°.



$$\text{COB} = \text{EOF} = 180^\circ - 52^\circ$$

$$\text{COB} = 128^\circ$$

$$\text{BPC} = 90^\circ + (\text{COB}/2)$$

$$\text{BPC} = 90^\circ + 128/2 = 90 + 64 = 154^\circ$$

Question 63 :

Let a, b and c be fractions, such that a b c. If c is divided by a, the result is 5/2, which exceeds b by 7/4. If a + b + c = , then (c – a) will be equal to ?

Difficulty : Moderate

Average Time : 67 Seconds

Options :

1. 1/3
2. 2/3
3. 1/6
4. 1/2

Solution :

The correct answer is option 4 ie 1/2.

$$c/a = 5/2$$

$$b = (5/2) - (7/4)$$

$$= 3/4$$

$$a + c = (23/12) - (9/12)$$

$$= 7/6 \quad \text{eq 1}$$

Ratio of c : a = $5/2 = 5 + 2 = 7$ parts

7 parts = $7/6$ (from eq 1)

3 parts = $3/6 = 1/2$

Question 64 :

In triangle ABC, $A = 58^\circ$. If I is the incenter of the triangle, then the measure of BIC is:

Difficulty : Moderate

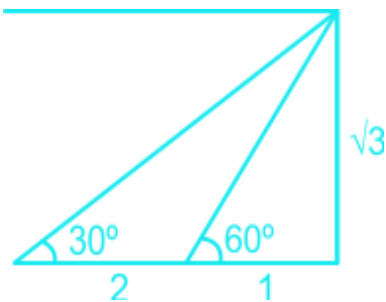
Average Time : 60 Seconds

Options :

1. 109°
2. 123°
3. 112°
4. 119°

Solution :

The correct answer is option 4 i.e. 119°



Given: $A = 58^\circ$

Hence,

$$\text{BIC} = 90^\circ + (1/2)A$$

$$= 90^\circ + 29^\circ$$

= 119°

Question 65 :

The value of is 50×10^k , where the value of k is ?

Difficulty : Moderate

Average Time : 64 Seconds

Options :

1. 3
2. 4
3. 2
4. -3

Solution :

The correct answer is **option 1** i.e. **3**.

$$\frac{(253)^3 + (247)^3}{25.3 \times 25.3 - 624.91 + 24.7 \times 24.7} \text{ is } 50 \times 10^k$$

It is of the form $\frac{a^3 + b^3}{a^2 + b^2 - ab}$

$$\frac{10^3(a^3 + b^3)}{a^2 + b^2 - ab} \quad [a = 25.3, b = 24.7]$$

$$10^3 \times (a + b) = 10^3 \times 50$$

Therefore, $k = 3$

Question 66 :

Travelling at 60 km/h, a person reaches his destination in a certain time. He covers 60% of his journey in $\frac{2}{5}$ th of the time. At what speed (in km/h) should he travel to cover the remaining journey so that he reaches the destination right on time?

Difficulty : Moderate

Average Time : 80 Seconds

Options :

1. 40
2. 48
3. 42

**36****Solution :**

The correct answer is **option 1** i.e. **40**.

60% of the journey is covered in $2/5$ times.

Rest 40% journey is to be covered in $3/5$ time, if he has to be right on time.

Time ratio = $2 : 3$

$$60 \times 2 = x \times 3$$

$$x = (60 \times 2)/3$$

$$x = 40 \text{ km/hr}$$

Question 67 :

Study the graph and answer the question that follows. What is the ratio of the total number of workers whose daily wages are less than Rs 500 to the total number of workers whose daily wages are Rs 600 and above?

Difficulty : Moderate**Average Time : 63 Seconds****Options :****1. 5 : 6****2. 6 : 7****3. 3 : 4****4. 15 : 11****Solution :**

The correct answer is option 1 ie 5 : 6.

$$75 : 90$$

$$5 : 6$$

Question 68 :

The value of is ?

Difficulty : Moderate**Average Time : 38 Seconds****Options :**



4

2. 0.5

3. 2

4. 1/4

Solution :

The correct answer is option 3 ie 2.

$$\frac{(\cos 9^\circ + \sin 81^\circ)(\sec 9^\circ + \operatorname{cosec} 81^\circ)}{\sin 56^\circ \sec 54^\circ + \cos 25^\circ \operatorname{cosec} 65^\circ}$$

$$\frac{(2\cos 9^\circ)(2\sec 9^\circ)}{\left(\frac{\sin 56^\circ}{\cos 34^\circ}\right) + \left(\frac{\cos 25^\circ}{\sin 25^\circ}\right)}$$

$$= 4 / (1+1) = 4/2 = 2$$

Question 69 :If $(2 + 5 - 3) \times k = -12$, then what will be the value of k?**Difficulty : Moderate****Average Time : 51 Seconds****Options :**1. $(2 + 5 + 3)$ 2. $(2 + 5 + 3)(2 - 10)$ 3. $(2 + 5 - 3)(2 + 5)$ 4. $(2 + 5 + 3)(2 - 5)$ **Solution :**The correct answer is option 2 ie $(2 + 5 + 3)(2 - 10)$

$$(2 + 5 - 3) \times k = -12$$

$$(1.4 + 2.2 - 1.7) \times k = -12$$

$$k \hat{=} -6$$

By option elimination

$$k = -6 = (2 + 5 + 3)(2 - 10)$$



or

By rationalisation,

$$x = \frac{-12}{(\sqrt{2} + \sqrt{5} - \sqrt{3})} \times \frac{(\sqrt{2} + \sqrt{5} + \sqrt{3})}{(\sqrt{2} + \sqrt{5} + \sqrt{3})}$$

$$x = \frac{-12(\sqrt{2} + \sqrt{5} + \sqrt{3})}{(4 + 2\sqrt{10})}$$

$$x = \frac{-12(\sqrt{2} + \sqrt{5} + \sqrt{3})}{(4 + 2\sqrt{10})}$$

$$x = \frac{-12(\sqrt{2} + \sqrt{5} + \sqrt{3})}{2(2 + \sqrt{10})}$$

$$x = \frac{-6(\sqrt{2} + \sqrt{5} + \sqrt{3})(2 - \sqrt{10})}{-6}$$

$$x = (2 + 5 + 3)(2 - 10)$$

Question 70 :

If θ lies in the first quadrant and $\cos^2 \theta - \sin^2 \theta = 1/2$, then the value of $\tan^2 \theta + \sin^2 \theta$ is ?

Difficulty : Moderate

Average Time : 91 Seconds

Options :

1. $7/2$

2. 3

3. 4

4. $4/3$

Solution :

The correct answer is **option 3** i.e. **4**.

$$0^\circ < \theta < 90^\circ$$

$$\cos^2 \theta - \sin^2 \theta = 1/2$$

$$\cos 2\theta = 1/2$$

$$2\theta = 60^\circ, \theta = 30^\circ$$

Hence,



$$\tan^2 60^\circ + \sin^2 90^\circ = 3 + 1 = 4$$

Question 71 :

The ratio of the income of A to that of B is 5 : 7. A and B save Rs 4000 and Rs 5000 respectively. If the expenditure of A is equal to of the expenditure of B, then the total income of A and B is ?

Difficulty : Moderate**Average Time : 73 Seconds****Options :**

1. Rs 25,200
2. Rs 24,000
3. Rs 26,400
4. Rs 28,800

Solution :

The correct answer is option 2 ie Rs 24,000.

Explanation:

$$\text{Income ratio} = 5 : 7 = 10 : 14$$

$$\text{Expenditure} = 2 : 3 = 6 : 9$$

$$\text{Savings} = 4 : 5 = 4 : 5$$

$$k = 1000$$

$$(10 + 14) \times k = 24 \times 1000 = \text{Rs } 24000$$

Question 72 :

In triangle ABC, AB = 6 cm, AC = 8 cm, and BC = 9 cm. The length of median AD is:

Difficulty : Moderate**Average Time : 56 Seconds****Options :**

1. $\frac{\sqrt{317}}{2}$ cm

2. $\frac{\sqrt{119}}{2}$ cm

- 3.

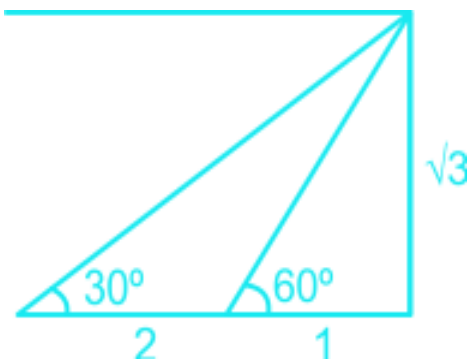
$$\frac{\sqrt{313}}{2} \text{ cm}$$

4. $\frac{\sqrt{115}}{2} \text{ cm}$

Solution :

The correct answer is option 2 i.e. $\frac{\sqrt{119}}{2} \text{ cm}$

Explanation:



$$6^2 + 8^2 = 2[m^2 + (9/2)^2]$$

$$100 = 2[m^2 + (9/2)^2]$$

$$50 = [m^2 + 81/4]$$

$$m^2 = 50 - (81/4)$$

$$m^2 = 119/4$$

$$m = \frac{\sqrt{119}}{2} \text{ cm}$$

Question 73 :

If a nine digit number $389x6378y$ is divisible by 72, then the value of $(6x+7y)$ will be ?

Difficulty : Moderate

Average Time : 119 Seconds

Options :

1. 6

2. 13



46

4. 8

Solution :

The correct answer is option 4 ie 8.

389x6378y divisible by 72

$$72 = 8 \times 9$$

$$78y = y = 4$$

$$x + 12 = 18$$

$$x = 6$$

$$= [(6 \times 6) + (7 \times 4)]$$

$$= 64 = 8$$

Question 74 :

= ?

Difficulty : Moderate**Average Time : 52 Seconds****Options :**

1. $\cos (1 + \sin)$
2. $2\cos (1 + \sec)$
3. $\sec(1 + \sin)$
4. $2\sec (1 + \sec)$

Solution :

The correct answer is option 4 ie 2sec (1 + sec).

Explanation:

$$\frac{(1 + \cos\theta)^2 + \sin^2 \theta}{(\operatorname{cosec}^2\theta) \sin^2 \theta}$$



$$\frac{1 + 1 + 2\cos\theta}{\cos^2\theta}$$

$$\frac{2[1 + \cos\theta]}{\cos^2\theta}$$

$$= 2\sec(1 + \sec)$$

Question 75 :

When 12, 16, 18, 20 and 25 divide the least number x, the remainder in each case is 4 but x is divisible by 7. What is the digit at the thousand's place in x?

Difficulty : Moderate**Average Time : 61 Seconds****Options :**

1. 5

2. 8

3. 4

4. 3

Solution :

The correct answer is 2 ie 8.

$$n = k\{\text{LCM}(12, 16, 18, 20, 25)\} + 4$$

$$n = (k \times 144 \times 25) + 4$$

$$n = 3600k + 4$$

$$n = 3598k + 2k + 4$$

$$(2k + 5) / 7, k = 5$$

$$n = 18004$$

Digit at thousand's place = 8

Question 76 :

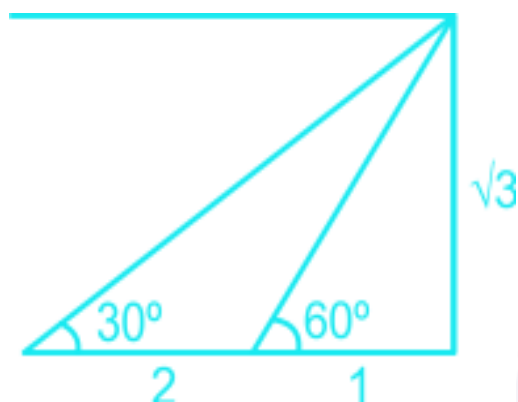
PQRS is a cyclic quadrilateral in which PQ = 14.4 cm, QR = 12.8 cm and SR = 9.6 cm. If PR bisects QS, what is the length of PS?

Difficulty : Moderate**Average Time : 56 Seconds****Options :**

- 15.8 cm
- 2. 16.4 cm
- 3. 13.6 cm
- 4. 19.2 cm

Solution :

The correct answer is **option 4** i.e. **19.2 cm**.



Here,

SOP is similar to ROQ [AAA property]

SOR is similar to POQ [AAA property]

So,

$$(14.4/9.6) = (OQ/OR) \dots\dots\dots(1)$$

$$(OS/OR) = (PS/12.8)$$

[Given: OS = OQ]

So,

$$(OQ/OR) = (PS/12.8) \dots\dots\dots(2)$$

From equation (1) and (2):

$$(14.4/9.6) = (PS/12.8)$$

$$3/2 = (PS/12.8)$$

$$PS = (3/2) \times 12.8$$



PS = 19.2 cm

Question 77 :

In what ratio, sugar costing Rs 60 per kg be mixed with sugar costing Rs 42 per kg such that by selling the mixture at Rs 56 per kg there is a gain of 12% ?

Difficulty : Moderate

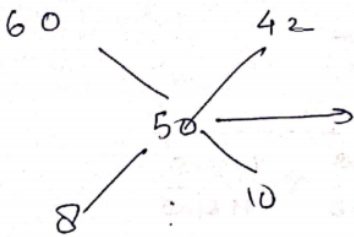
Average Time : 97 Seconds

Options :

1. 5 : 6
2. 8 : 9
3. 4 : 5
4. 5 : 7

Solution :

The correct answer is option 3 ie 4 : 5



$$x + (12x/100) = 56$$

$$x = 50$$

Hence, 4 : 5

Question 78 :

When an article is sold for Rs 355, there is a loss of 29%. To gain 21%, it should be sold for Rs?

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. 629.20
2. 580.80
3. 605

**635****Solution :**The correct answer is **option 3** i.e. **605**

$$500 - 29\% = 355$$

$$71\% = 355$$

$$500 + 21\% = 500 \times 1.21$$

$$= 605$$

Question 79 :

= ?

Difficulty : Moderate**Average Time : 42 Seconds****Options :**

1. cosec^2

2. \sec^2

3. \sin^2

4. \cos^2

Solution :The correct answer is option 2 ie \sec^2

$$\left(\frac{1 - \tan\theta}{1 - \cot\theta}\right)^2$$

$$\left(\frac{1 - \tan\theta}{1 + \left(\frac{1}{\tan\theta}\right)}\right)^2$$

$$= \tan^2 + 1$$

$$= \sec^2$$

Question 80 :

is equal to ?

Difficulty : Moderate**Average Time : 50 Seconds****Options :**



sec + tan

2. 1 + sectan

3. 1 - sectan

4. sec - tan

Solution :

The correct answer is option 1 ie sec + tan.

$$\sqrt{\frac{(\cot\theta + \cos\theta)}{(\cot\theta - \cos\theta)}}$$

$$\sqrt{\frac{(1 + \sin\theta)}{(1 - \sin\theta)}} \times \sqrt{\frac{(1 + \sin\theta)}{(1 + \sin\theta)}}$$

= sec + tan

Question 81 :

In triangle ABC, AB = 7 cm, BC = 10 cm and AC = 8 cm. If AD is the angle bisector of BAC, where D is a point on BC, then BD is equal to:

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. 16/3 cm

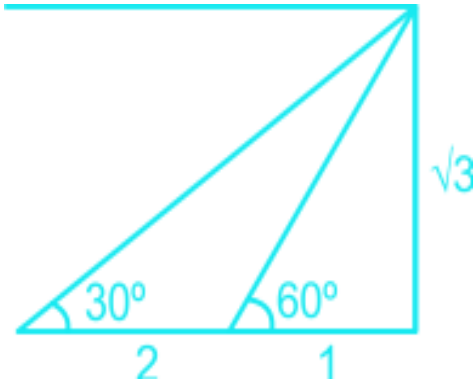
2. 15/4 cm

3. 14/3 cm

4. 17/4 cm

Solution :

The correct answer is **option 3** i.e. **14/3 cm**.



By Angle bisector theorem:

$$BD : DC = AB : AC$$

$$BD : DC = 7 : 8$$

So,

$$BD = (7/15) \times 10$$

$$BD = 14/3 \text{ cm}$$

Question 82 :

The base of right prism is a trapezium whose parallel sides are 11 cm and 15 cm and the distance between them is 9 cm. If the volume of the prism is 1731.6 cm^3 , then the height (in cm) of the prism will be ?

Difficulty : Moderate

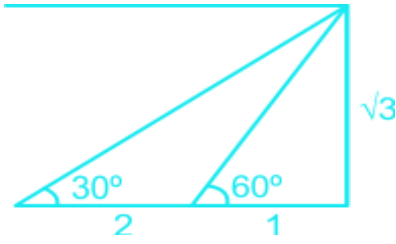
Average Time : 68 Seconds

Options :

1. 15.6
2. 15.2
3. 14.8
4. 14.2

Solution :

The correct answer is option 3 ie 14.8



$$\text{Base area} = (1/2) \times 26 \times 9$$

$$= 13 \times 9 = 117$$

V = base height

$$V = 117 \times h$$

$$1731.6 / 117 = h$$

$$h = 14.8 \text{ cm}$$

Question 83 :

Raghav spends 80% of his income. If his income increases by 12% and the savings decrease by 10%, then what will be the percentage increase in his expenditure?

Difficulty : Moderate

Average Time : 64 Seconds

Options :

1. 20.5
2. 16
3. 17.5
4. 22

Solution :

The correct answer is **option 3** i.e. **17.5**

Explanation:

Let income be 100.

Expenditure = 80

Savings = 20

I : E : S = 5 : 4 : 1



After increasing the income

$$I = 112$$

$$E = 80 + x\%$$

$$S = 18$$

$$I = E + S$$

$$112 - 18 = E \quad E = 94$$

$$(14 / 80) \times 100 = 140/8 = 17.5\%$$

Question 84 :

The lateral surface area of a cylinder is 352 cm^2 . If its height is 7 cm, then its volume (in cm^3) is? (Take $\pi = 22/7$)

Difficulty : Moderate

Average Time : 70 Seconds

Options :

1. 1408
2. 1078
3. 1243
4. 891

Solution :

The correct answer is **option 1** i.e. 1408 cm^3 .

$$\text{L.S.A.} = 2rh = 352$$

$$2 \times \frac{22}{7} \times r \times 7 = 352$$

$$44 \times r = 352$$

$$r = 8$$

$$V = r^2h = \frac{22}{7} \times 8 \times 8 \times 7$$

$$= 22 \times 64 = 1408 \text{ cm}^3$$

Question 85 :

What will be the compound interest on a sum of Rs 31,250 for 2 years at 12% p.a. If the interest is compounded 8 monthly?



Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. Rs 8106
2. Rs 8116
3. Rs 8016
4. Rs 8156

Solution :

The correct answer is **option 2** i.e. **Rs 8116**.

$12\% / 12 \text{ month} = [8\% \text{ for } 8 \text{ months}]$

Cycles in 2 yrs

$31250 \cdot 8\% / 2500 \cdot 8\% / 2700 \cdot (8\% / 2916) \cdot x$

$x = 2916 + 2700 + 2500 = 8116$

Question 86 :

When 7897, 8110 and 8536 are divided by the greatest number x , then the remainder in each case is the same. The sum of the digits of x is ?

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. 14
2. 5
3. 9
4. 6

Solution :

The correct answer is option 4 ie 6.

7897, 8110 and 8536

$7897 - r = N_1$

$8110 - r = N_2$



$$8536 - r = N_3$$

$$\text{HCF of } (N_1, N_2, N_3) = x$$

$$x = \{(N_1 - N_2)(N_2 - N_3)(N_3 - N_1)\} \text{ HCF}$$

$$x = \text{HCF } \{213, 426, 639\}$$

$$x = 213$$

$$\text{sum of digits} = 6$$

Question 87 :

The ratios of copper to zinc in alloys A and B are 3 : 4 and 5 : 9, respectively. A and B are taken in the ratio 2 : 3 and melted to form a new alloy C. What is the ratio of copper to zinc in C?

Difficulty : Moderate**Average Time : 75 Seconds****Options :****1. 8 : 13****2. 3 : 5****3. 9 : 11****4. 27 : 43****Solution :**

The correct answer is 4 ie 27 : 43.

Alloy A ratio = C : Z

$$3 : 4$$

B ratio = C : Z

$$5 : 9$$

After mixing, ratio = 2 : 3

Applying weighted average

$$C / \text{total} = \frac{\frac{6}{7} + \frac{15}{4}}{5}$$

$$= 27 / 70$$

$$c/z = 27 / (70 - 27) = 27 / 43$$

Question 88 :

In triangle ABC, D and E are the points on sides AB and BC respectively such that $DE \parallel AC$. If $AD : DB = 5 : 3$, then what is the ratio of the area of triangle BDE to that of the trapezium ACED?

Difficulty : Moderate

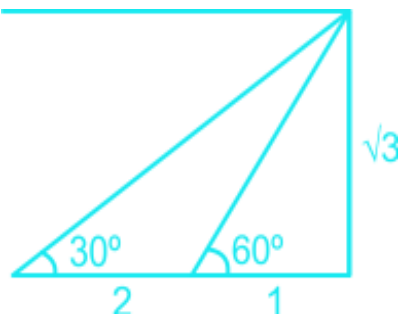
Average Time : 81 Seconds

Options :

1. 4 : 25
2. 9 : 55
3. 9 : 64
4. 1 : 6

Solution :

The correct answer is **option 2** i.e. **9 : 55**.



$$\text{Ar (BDE)} : \text{Ar (ABC)} = (BD)^2 : (AB)^2$$

$$= (3)^2 : (8)^2$$

$$9 : 64$$

Hence,

$$\text{Ar (BDE)} : \text{Ar (ADEC)}$$

$$9 : [\text{Ar(ABC)} - \text{Ar(BDE)}]$$

$$9 : (64 - 9)$$

$$9 : 55$$

**Question 89 :**

One year ago, the ratio of the age (in years) of A to that of B was 4 : 3. The ratio of their respective ages, 3 years from now, will be 6 : 5. What will be the ratio of respective ages of A and B, 9 years from now?

Difficulty : Moderate**Average Time : 84 Seconds****Options :**

1. 7 : 6
2. 10 : 9
3. 9 : 8
4. 8 : 7

Solution :

The correct answer is **option 3** i.e. **9 : 8**

Ages of A and B

$$A/B = 4/3 \text{ [1 year ago]}$$

$$3A = 4B$$

After 3 years,

$$(A + 4)/(B + 4) = 6/5$$

$$5A + 20 = 6B + 24$$

$$5A = 6B + 4$$

$$A = 8, B = 6$$

After 9 years,

$$(A + 10)/(B + 10) = 18/16 = 9/8$$

Question 90 :

The sides of a triangles are 11 cm, 60 cm and 61 cm. What is the radius of the circle circumscribing the triangle?

Difficulty : Moderate**Average Time : 62 Seconds****Options :**

1. 31.5 cm

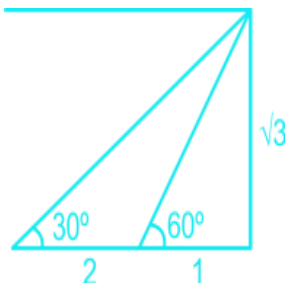
31 cm

3. 30 cm

4. 30.5 cm

Solution :

The correct answer is **option 4** i.e. **30.5 cm**



Here we can see that,

$$11^2 + 60^2 = 121 + 3600 = 3721 = 61^2$$

Hence, it is a Pythagoras triplet and this triangle is a right angled triangle with 61 cm side as hypotenuse.

So,

$$\text{Radius of circumcircle} = \text{hypotenuse}/2 = 61/2 = 30.5 \text{ cm}$$

Question 91 :

If $x = \dots$, then the value of \dots will be closest to ?

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. 0.17

2. 0.12

3. 1.4

4. 1.2

Solution :

The correct answer is **option 1** ie **0.17**



$$x = \sqrt{1 + \frac{\sqrt{3}}{2}} - \sqrt{1 - \frac{\sqrt{3}}{2}}$$

$$x^2 = 1 + (3/2) + 1 - (3/2) - 2 \times \sqrt{\left(1 - \frac{3}{4}\right)}$$

$$x^2 = 2 - [(2) \times (1/2)]$$

$$x^2 = 1, x = +1, x = -1$$

$$\frac{\sqrt{2} - x}{\sqrt{2} + x}$$

$$= \frac{\sqrt{2} - 1}{\sqrt{2} + 1}$$

$$= 3 - 2.2 = 3 - 2.8$$

$$= 0.20 \quad 0.17$$

Question 92 :

The given pie chart shows the breakup of total number of employees of a company working in different offices (A, B, C, D and E) Total number of employees = 2400 If the percentage of male employees in office C is 20% and that of female employees in office E is 40%, then what is the ratio of the number of female employees in office C to that of female employees in office E?

Difficulty : Moderate**Average Time : 97 Seconds****Options :**

1. 3 : 2

2. 5 : 4

3. 2 : 3

4. 3 : 8

Solution :

The correct answer is option 1 i.e. 3 : 2

Total number of employees = 2400

Female Employees in Office C = $80/100 * 54/360 * 2400$

Female Employees in Office E = $40/100 * 72/360 * 2400$

Ratio = $80 * 54 : 40 * 72$

Ratio = 12 : 8

Ratio = 3 : 2

Question 93 :

In a trapezium ABCD, $DC \parallel AB$, $AB = 12$ cm and $DC = 7.2$ cm. What is the length of the line segment joining the mid-points of its diagonals?

Difficulty : Moderate

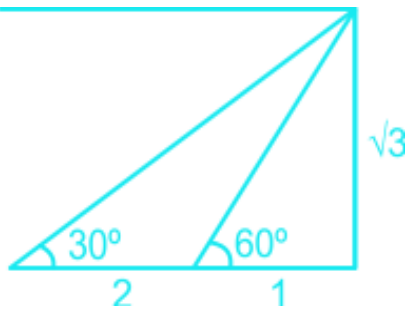
Average Time : 45 Seconds

Options :

1. 2.6 cm
2. 4.8 cm
3. 2.4 cm
4. 3.6 cm

Solution :

The correct answer is **option 3** i.e. **2.4 cm**



Trick [Important formula]: If E and F are mid points of diagonals AC and DB respectively, then,

$$EF = (AB - CD)/2$$

So,

$$EF = (12 - 7.2)/2 = 4.8/2 = 2.4 \text{ cm}$$

Question 94 :

A number is first increased by 16% and then increased by 14%. The number, so obtained, is now decreased by 30%. What is the net increase or decrease percent in the original number (nearest to an integer)?



Difficulty : Moderate

Average Time : 65 Seconds

Options :

1. 6% increase
2. 7% decrease
3. No increase or decrease
4. 9% decrease

Solution :

The correct answer is **option 2** i.e. **7% decrease**.

Explanation:

$$100 +16\% +14\% -30\%$$

$$100 -30\% +16\% +14\% = 92.48$$

$$100 - 92.48\% = 7\% \text{ decrease}$$

Question 95 :

Radha marks her goods 25% above the cost price. She sells 35% of goods at the marked price, 40% at 15% discount and the remaining at 20% discount. What is her overall percentage gain?

Difficulty : Moderate

Average Time : 54 Seconds

Options :

1. 11.25
2. 10
3. 11.75
4. 12.75

Solution :

The correct answer is option 1 ie 11.25

Quantity		Profit
35%	7	+25%
40%	8	+6.25%



25% 5 0

100 125 (-15% / -18.75) (106.25)

Applying weighted average

$$\frac{(7 \times 25) + (6.25 \times 8) + 0}{20}$$

$$\frac{175 + 50 + 0}{20}$$

$$= 225/20 = 11.25$$

Question 96 :

One of the factors of $(82k + 52k)$, where k is an odd number, is ?

Difficulty : Moderate

Average Time : 69 Seconds

Options :

1. 86
2. 88
3. 84
4. 89

Solution :

The correct answer is option 4 ie 89.

$$= 8^{2k} + 5^{2k}$$

$$= 64^k + 25^k$$

$a^n + b^n$ and n is odd

Then one factor is $(a + b)$

So,

$$(64^k + 25^k) \text{ factor is } (64 + 25) = 89$$

Question 97 :

The internal and external radii of a hollow hemispherical vessel are 6cm and 7cm respectively. What is the total surface area (in cm^2) of the vessel ?

**Difficulty : Moderate****Average Time : 61 Seconds****Options :**

1. 183
2. 189
3. 177
4. 174

Solution :

The correct answer is option 1 ie 183 .

$$\begin{aligned} \text{C.S.A.} &= 2 R^2 + 2 r^2 + (R^2 - r^2) \\ &= 2 (7^2 + 6^2) + (7^2 - 6^2) \\ &= (170 + 13) \\ &= 183 \end{aligned}$$

Question 98 :

When the price of an item was reduced by 25%, then its sale was increased by x%. If there is an increase of 20% in the receipt of the revenue, then the value of x will be ?

Difficulty : Moderate**Average Time : 68 Seconds****Options :**

1. 50%
2. 60%
3. 45%
4. 75%

Solution :

The correct answer is option 2 ie 60%.

$P \times Q = S$ Receipt

100 -25% 75 +x% 45 120

$$(45/75)\% = (3/5) \times 100 = 60\%$$

Question 99 :

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In a constituency, 55% of the total number of voters are males and the rest are the females. If 40% of the males are illiterate and 40% of females are literate, then by what percent is the number of literate males more than that of illiterate females ?

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. $22\frac{8}{11}$
2. $18\frac{2}{9}$
3. $22\frac{2}{9}$
4. $18\frac{2}{11}$

Solution :

The correct answer is option 3 ie $22\frac{2}{9}$.

	Male	Females
	55%	45%
Illiterate	22%	27%
Literate	33%	18%

$$100 \times (6/27) = (2/9) \times 100 = 22.22$$
$$= 22\frac{2}{9}$$

Question 100 :

From the top of a tower, the angles of depression of two objects on the ground on the same side of it, are observed to be 60° and 30° respectively and the distance between the two objects is 4003 m. The height (in m) of the tower is ?

Difficulty : Moderate

Average Time : 99 Seconds

Options :

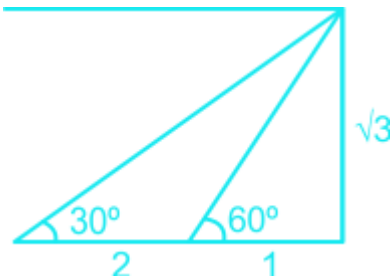
1. 800
2. 8003

600

4. 6003

Solution :

The correct answer is option 3 ie 600.



2 4003

1 2003

3 3×2003

= 600

Ssc Cgl Tier II Previous Year Question Paper Analysis

The analysis of Ssc Cgl Tier II Previous Year Question Paper held on 2019-09-11 in the Morning exam is as follows:

1. 100 questions were moderate.
2. The safe score is 150 marks.
3. 100 questions were asked from Quantitative Aptitude and 100 questions were asked from Quantitative Aptitude
4. 0 questions should have been skipped if you were short of time.

Ssc Cgl Tier II Previous Year Question Paper Topic Wise Weightage

Quantitative Aptitude

1. Simplification - 16
2. Percentage - 5

- Data Interpretation - 1
- 4. Time Speed And Distance - 5
- 5. Interest - 4
- 6. Ratios And Proportion - 6
- 7. Geometry - 15
- 8. Trigonometry - 10
- 9. Mensuration - 12
- 10. Algebra - 1
- 11. Number System - 1
- 12. Coordinate Geometry - 1
- 13. Quadratic Equation - 7
- 14. Partnership - 1
- 15. Profit And Loss - 7
- 16. Statistics - 8

Ssc Cgl Tier II Previous Year Question Paper Tips and Tricks



1. Try to solve Ssc Cgl Tier II Previous Year Question Paper without taking any help from the solutions.
2. Ssc Cgl Tier II Previous Year Question Paper require proper usage of concept so firstly read the question thoroughly and then use the right concept.
3. In case you're not able to solve the question in less than 30 seconds in the exam then you should skip the question and move to the next question.

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Exam Dates
Admit Card
Exam Results
Exam Cutoff
Exam Eligibility
Exam Pattern
Answer Key
Important Days



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