





## 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 2018-02-17 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 selling price of an article is Rs 816 if the discount on it is 15%. What would be the selling price of the article (in Rs) if the discount on it is 25% ?

#### **Difficulty : Moderate**

#### **Options :**

- 1. 750
- 2. 720
- 3. 800
- 4. 700

#### Solution :

The correct answer is option 2 ie 720.

MP - discount = SP

0.85 × MP = SP

MP = 816/0.85 = 960

Discount = 25%

MP - Discount = SP

960 - (0.25 × 960) = SP

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SP = Rs 720

#### Question 2 :

If x + y + z = 0, then what is the value of  $(3y^2 + x^2 + z^2)/(2y^2 - xy)$ ?

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#### **Difficulty : Moderate**

Average Time : 55 Seconds

### Options :

- 1. 2
- 2. 1
- 3. 3/2
- 4. 5/3

#### Solution :

The correct answer is option 1 ie 2.

Let 
$$x = 1$$
,  $y = -1$ ,  $z = 0$ 

$$x + y + z = 0$$

 $=\frac{3y^2 + x^2 + z^2}{2y^2 - xz}$  $=\frac{3(-1)^2 + 1^2 - 0}{2(-1)^2 + 1^2 - 0}$ 

$$=\frac{3(-1)^{2}+1}{2(-1)^{2}-0}$$

= 2

#### **Question 3 :**

The entry ticket at a fun park was increased in the ratio 7 : 9, due to which footfalls fell in the ratio 13 : 11. What is the new daily collection (in Rs), if the daily collection before the price hike was Rs 2,27,500 ?

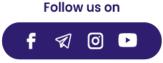
#### **Difficulty : Moderate**

#### **Options :**

- 1. 237500
- 2. 247500
- 3. 232500



Average Time : 58 Seconds



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#### 242500

#### Solution :

The correct answer is option 2 ie 2,47,500.

Ticket price		Number	Collection
7	×	13 =	91x = 227500
9	×	11 =	99x = 99 × 2500 = 247500

#### **Question 4 :**

The average marks of 50 students in an examination was 65. It was later found that the marks of one student had been wrongly entered as 83 instead of 38. The correct average is ?

**Difficulty : Moderate** 

#### **Options**:

- 1. 63.9
- 2. 64.5
- 3. 64.7
- 4. 64.1

#### Solution :

The correct answer is option 4 ie 64.1

Sum of scores of all students =  $50 \times 65 = 3250$ 

After adding and substracting correct and wrong value,

= 3250 + 38 - 83

= 3205

Corrected average = 3205/50 = 64.1

#### **Question 5 :**

In a class of 50 students there are 22 girls who scored an average of 35 marks in the test. What is the average marks of the boys if the class average is 42 marks ?

**Difficulty : Moderate** 

Average Time : 54 Seconds

**Options** :





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Average Time : 59 Seconds





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50

- 2. 52.5
- 3. 47.5
- 4.55

#### Solution :

The correct answer is option 3 ie 47.5.

Sum of scores of all students =  $50 \times 42 = 2100$ 

Sum of scores of 22 girls =  $35 \times 22 = 770$ 

Sum of scores of boys = 2100 - 770 = 1330

Average score of boys = 1330/28 = 47.5

#### **Question 6 :**

The average of 41 cosecutive odd numbers is 49. What is the largest number?

**Difficulty : Moderate** 

Average Time : 48 Seconds

## **Options**:

- 1.89
- 2.91
- 3.93
- 4.95

Solution :

The correct answer is option 1 ie 89.

Average of 41 cosecutive odd numbers = 49

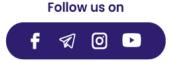
21st odd number = 49

Largest number =  $49 + (20 \times 2)$ 

= 89

**Question 7:** If 6A = 4B = 9C; what is A : B : C?

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**Difficulty : Moderate** 

**Average Time : 48 Seconds** 

#### **Options :**

- 1.6:4:9
- 2. 9:4:6
- 3.4:9:6
- 4.6:9:4

#### Solution :

The correct answer is option 4 ie 6 : 9 : 4.

6A = K = 4B = 9C

A = K/6, B = K/4, C = K/9

A : B : C = K/6 : K/4 : K/9

= (6K : 9K : 4K)/36

Ratio = 6 : 9 : 4

#### **Question 8 :**

If 50 less had applied and 25 less selected, the ratio of selected to unselected would have bee 9 : 4. So how many candidates had applied if the ratio of selected to unselected was 2 : 1?

**Difficulty : Moderate** 

#### **Options** :

- 1. 125
- 2. 250
- 3. 375
- 4. 500

Solution : The correct answer is option 3 i.e. 375

Total applied = x

Selected = y

Average Time : 58 Seconds

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Not selected = x - y

y / (x - y) = 2/1

y = 2x - 2y

3y = 2x

y = (2/3)x

Also,

(y - 25)/(x - y - 25) = 9/4

(2x - 75)/(x - 75) = 9/4

8x - 300 = 9x - 675

x = 375

```
Question 9 :
What is the fourth proportional to 189, 273 and 153?
```

**Difficulty : Moderate** 

#### **Options** :

1. 117

- 2. 299
- 3. 221
- 4. 187

Solution :

The correct answer is option 3 i.e. 221

189 : 273 :: 153 : x

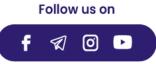
 $189x = 273 \times 153$ 

x = (273 × 153)/189

x = 221

#### Question 10:

Rs 11,550 has to be divided between X, Y and Z such that X gets 4/5 of what Y gets and Y gets 2/3 of what Z gets. How much more does Z get over X (in Rs)?



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Average Time : 67 Seconds



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**Difficulty : Moderate** 

Average Time : 52 Seconds

#### **Options :**

- 1. 7200
- 2. 1800
- 3. 1170
- 4. 2450

#### Solution :

The correct answer is **option 4** i.e. **2450** 

X = (4/5)Y (given)

Y = (2/3)Z (given)

So,

```
Z = (3/2) \times (5/4) X
```

```
Z = (15/8)X
```

Now,

X + Y + Z = 11550

X + (5/4)X + (15/8)X = 11550

 $X = (11550 \times 8)/33 = 2800$ 

 $Z = 15X/8 = (15 \times 2800)/8 = 5250$ 

Hence,

Z gets = 5250 - 2800 = 2450 more than X

#### Question 11 :

Before a battle the ratio of tanks to planes in an army was 5 : 3. During the war 1000 tanks were destroyed and 800 planes were destroyed. The ratio of tanks to planes become 2 : 1. What is the number of tanks after the war?

Average Time: 82 Seconds

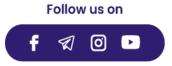
**Difficulty : Moderate** 

#### **Options :**

1. 2000



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- 1000
- 3. 3000
- 4. 4000

#### Solution :

The correct answer is option 1 i.e. 2000.

Let the number of tanks and planes be 5x and 3x.

After war,

Tanks = 5x - 1000

Planes = 3x - 800

(5x - 1000)/(3x - 800) = 2/1

5x - 1000 = 6x - 1600

x = 600

Total tanks (left) = 3000 - 1000 = 2000

#### Question 12:

Triangle ABC is similar to triangle PQR and AB : PQ = 2 : 3. AD is the median to the side BC in triangle ABC and PS is the median to the side QR in triangle PQR. What is the value of (BD/QS)<sup>2</sup> ?

**Difficulty : Moderate** 

#### **Options**:

- 1. 3/5
- 2. 4/9
- 3. 2/3
- 4. 4/7

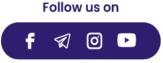
Solution :

The correct answer is option 2 i.e. 4/9.

In the case of similar triangles:

AB/PQ = AC/PR = BC/QR

Average Time : 67 Seconds



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AB/PQ = 2/3

AB/PQ = BC/QR

AB/PQ = 2BD/2QS = BD/QS

BD/QS = 2/3

 $(BD/QS)^2 = (2/3)^2 = 4/9$ 

#### Question 13 :

If  $a^3 + 3a^2 + 9a = 1$ , then what is the value of  $a^3 + (3/a)$ ?

**Difficulty : Moderate** 

#### **Options**:

- 1.31
- 2. 26
- 3. 28
- 4.24

#### Solution :

The correct answer is option 3 ie 28.

 $a^3 + 3a^2 + 9a = 1$ 

 $a(a^2 + 3a + 9) = 1$ 

 $a^2 + 3a + 9 = 1/a$ 

```
a^3 - b^3 = (a - b)(a^2 + ab + b^2)
```

for b = 3

 $a^3 - 3^3 = (a - 3)(a^2 + 3a + 9)$ 

 $a^3 - 27 = (a - 3)(1/a)$ 

 $a^3 + (3/a) = 1 + 27$ 

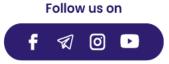
 $a^3 + (3/a) = 28$ 

**Question 14:** 

If P = 7 + 43 and PQ = 1, then what is the value of  $(1/P^2) + (1/Q^2)$ ?



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**Difficulty : Moderate** 

**Average Time : 65 Seconds** 

#### **Options :**

- 1. 196
- 2. 194
- 3. 206
- 4. 182

#### Solution :

The correct answer is option 2 ie 194.

P = 7 + 43, PQ = 1, So, Q = 1 / (7 + 43)

On rationalizing,

Q = 7 - 43

- $= (1/P^2) + (1/Q^2)$
- $= (P^2 + Q^2) / (PQ)^2$
- $= [(P + Q)^2 2PQ] / (PQ)^2$
- $= [(14)^2 2 \times 1] / 1^2$

= 194

#### Question 15 :

x, y and z are real numbers. If  $x^3 + y^3 + z^3 = 13$ , x + y + z = 1, and xyz = 1, then what is the value of xy + yz + zx?

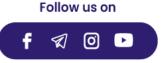
Difficulty : Moderate

#### **Options** :

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

Solution :

The correct answer is option 4 ie -3.



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Average Time : 65 Seconds





- $x^{3} + y^{3} + z^{3} 3xyz = (x + y + z)(x^{2} + y^{2} + z^{2} xy zy zx)$
- $x^3 + y^3 + z^3 3xyz = (x + y + z)[(x + y + z)^2 3(xy + yz + zx)]$

 $13 - 3(1) = 1[(1)^2 - 3(xy + yz + zx)]$ 

10 = 1[1 - 3(xy + yz + zx)]

xy + yz + zx = -3

#### Question 16 :

If (a + b) / c = 6/5, and (b + c) / a = 9/2, then what is the value of (a + c) / b?

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Difficulty : Moderate

Average Time : 61 Seconds

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#### Options :

- 1. 9/5
- 2. 11/7
- 3. 7/11
- 4. 7/4

#### Solution :

The correct answer is option 4 i.e. 7/4

(a + b)/c = 6/5

5a + 5b = 6c ----- eq1

(b + c)/a = 9/2

- 2b + 2c = 9a ----- eq2
- 9a 2b = 2c (multiply by 3)

27a - 6b = 6c ----- eq3

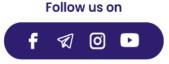
from eq1 and eq3

27a - 6b = 5a + 5b

b = 2a

4a + 2c = 9a

c = (5/2)a



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(a + c)/b = [a + (5/2)a]/2a

#### Question 17 :

If and are the roots of the equation  $x^2 - x + 1 = 0$ , then which equations will have roots 3 and 3?

#### **Difficulty : Moderate**

#### **Options** :

1.  $x^{2} + 2x + 1 = 0$ 2.  $x^{2} - 2x - 1 = 0$ 3.  $x^{2} + 3x - 1 = 0$ 4.  $x^{2} - 3x + 1 = 0$ 

#### Solution :

The correct answer is **option 1** i.e.  $x^2 + 2x + 1 = 0$ .

$$x^{2} - x + 1 = 0$$
  
= 1  
+ = 1

Cubing on both sides

$$3^{3} + 3^{3} + 3(+) = 1$$
  
 $3^{3} + 3^{3} + 3(1)(1) = 1$   
 $3^{3} + 3^{3} = -2$   
 $3^{3} = 1$ 

Required equation =  $x^2 + 2x + 1 = 0$ 

## Question 18 :

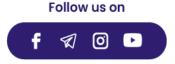
If x1x2x3 = 4(4 + x1 + x2 + x3), then what is the value of [1/(2 + x1)] + [1/(2 + x2)] + [1/(2 + x3)]?

#### Difficulty : Moderate

Average Time : 79 Seconds

#### Options :

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Average Time : 89 Seconds





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1

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

#### Solution :

The correct answer is option 2 ie 1/2.

 $x_1x_2x_3 = 4(4 + x_1 + x_2 + x_3)$ 

Assuming,

 $x_1 = 4, x_2 = 4, x_3 = 4$ 

Therefore,  $[1/(2 + x_1)] + [1/(2 + x_2)] + [1/(2 + x_3)]$ 

$$= 3 \times (1/6)$$

= 1/2

#### **Question 19:**

If  $x^3 + y^3 + z^3 = 3(1 + xyz)$ , P = y + z - x, Q = z + x - y and R = x + y - z, then what is the value of  $P^3 + Q^3 + R^3 - 3PQR$ ?

#### **Difficulty : Moderate**

**Options** :

- 1.9
- 2.8
- 3. 12
- 4.6

#### Solution :

The correct answer is option 3 i.e. 12.

Assume y = z = 0

then,

P = -x

Q = +x



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$$R = +x$$

$$P^{3} + Q^{3} + R^{3} - 3PQR = x^{3} - 3(-x)^{3}$$

$$= x^{3} + 3(x)^{3}$$

$$= 3 + 3(3)$$

$$= 12$$

#### **Question 20:**

5% of a = b, then b% of 20 is the same as ?

**Difficulty : Moderate** 

#### **Options** :

- 1. 20% of a/2
- 2. 50% of a/20
- 3. 50% of a/2
- 4. 20% of a/20

#### Solution :

The correct answer is option 4 i.e. 20% of a/20

 $(5/100) \times a = b$ 

a = 20b

 $(b/100) \times 20 = b/5$ 

b = a/20 = a/100

In fourth option, we have 20% of a/20

= a/100

Hence, 4th option is correct.

#### Question 21:

In how many months will Rs 8,000 yield Rs 2,648 as compound interest at 20% per annum compounded semi-annually?

**Difficulty : Moderate** 

Average Time : 60 Seconds

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**Options** :

f କ୍ଷ Ø 

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**Average Time : 77 Seconds** 





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18

- 2.24
- 3. 12
- 4. 30

#### Solution :

The correct answer is option1 ie 18.

6 months interest = 10%

P = 8000

I = 2648

2648 2400 + 240 + 8

30% 3% .1%

= 33.1%

Total cycles = 6 + 6 + 6 = 18 months

#### Question 22:

The cost price of an article is Rs x. It is marked up by 200%. It is sold at Rs 540 after giving 25% discount. What is the value of x (in Rs)?

**Difficulty : Moderate** 

#### **Options** :

- 1. 360
- 2. 250
- 3. 300
- 4. 240
- Solution :

The correct answer is option 4 i.e 240

Given,

CP = x

Average Time : 60 Seconds

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MP = 3x

Discount = 25%

MP - Discount = 540

(3/4) MP = 540

 $MP = (540 \times 4)/3 = 720$ 

3x = 720

x = 240

#### **Question 23:**

1 packet of biscuit costs Rs16 but the pack of 4 of the same packet of biscuits costs Rs 56. What is the effective discount (in %) on the pack?

**Difficulty : Moderate** 

#### **Options** :

- 1.8
- 2, 10
- 3. 7.5
- 4. 12.5

Solution :

The correct answer is option 4 i.e. 12.5

Cost of 1 pack = Rs 16

Cost of 4 packs = Rs 64

Set of 4 packs = 56

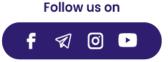
Effective discount =  $[(64 - 56)/64] \times 100$ 

 $= (8/64) \times 100$ 

= 12.5%

#### Question 24 :

Working together A and B can do a job in 40 days, B and C in 36 days, and all three together in 24 days. In how many days can B alone do the job?



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**Difficulty : Moderate** 

Average Time : 66 Seconds

#### **Options :**

- 1. 60
- 2. 90
- 3. 72
- 4. 120

#### Solution :

The correct answer is option 2 i.e. 90

(1/a) + (1/b) + (1/c) = 1/24

Given,

- (1/b) + (1/c) = 1/36
- (1/a) + (1/36) = 1/24
- 1/a = 1/72
- a = 72 days
- 1/b = (1/40) (1/72)
- 1/b = 4/360 = 1/90

b = 90 days

#### Question 25 :

A and B invest in a business in the ratio 4 : 5. After 10 months B leaves the business after withdrawing his investment. In the first year, the business made a profit of Rs 49,000. What is the share of B (in Rs) of this profit?

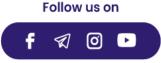
**Difficulty : Moderate** 

#### **Options :**

- 1. 25000
- 2. 20000
- 3. 18000
- 4. 22000



Average Time : 64 Seconds



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Solution :

The correct answer is option 1 i.e. 25000

Let the investment made by A and B = 4x and 5x

Ratio of their profit =  $(4x \times 12)$  :  $(5x \times 10)$ 

= 48x : 50x

= 24 : 25

Share of B = (25/49) × 49000

= 25000

#### Question 26 :

A, B, and C can do a job working alone in 50, 75 and 20 days respectively. They all work together for 4 days, then C quits. How many days will A and B take to finish the rest of the job?

**Difficulty : Moderate** 

#### **Options**:

- 1. 20
- 2. 30
- 3. 18
- 4. 24
- Solution :

The correct answer is **option 1** ie **20**.

LCM (50, 75, 20) = 300

A can do = 300/50 = 6 units/day

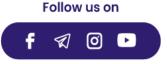
- B can do = 300/75 = 4 units/day
- C can do = 300/20 = 15 units/day

Each day work = 15 + 4 + 6 = 25 units/days

A and B's 1 day work = 10 units

Therefore,

200/10 = 20 days



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Average Time : 65 Seconds





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#### Question 27:

A and B can together complete a task in 18 hours. After 6 hrs A leaves. B takes 36 hrs to finish rest of the task. How many hours would A have taken to do the task if he worked alone ?

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#### **Difficulty : Moderate**

Average Time : 66 Seconds

## **Options**:

- 1.54
- 2.45
- 3. 21
- 4. 27

#### Solution :

The correct answer is option 4 ie 27.

Let the total number of units of work = 108

A and B can do in 18 hrs = 108/18 = 6 units

Each hour they both can do 6 units.

For 6 hours, they both worked and so 36 units are done.

108 - 36 = 72 units of work done by B alone in 36 hours.

72/36 = 2 units/day

Therefore,

a + b = 6

a = 6 - 2

a = 4 units/day

If A worked alone, then = 108/4 = 27 hours

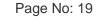
#### **Question 28:**

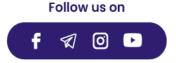
A can do 50% of job in 16 days, B can do 1/4th of the job in 24 days. In how many days can they do 3/4th of the job working together?

**Difficulty : Moderate** 

Average Time : 76 Seconds

**Options**:





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- 24
- 2.9
- 3. 21
- 4. 18

Solution :

The correct answer is **option 4** ie **18**.

A can complete the whole work in =  $16 \times 2 = 32$  days

B can complete the whole work in =  $24 \times 4 = 96$  days

They both can complete the whole work in =  $(96 \times 32)/128 = 24$  days

They can complete 3/4th work in =  $24 \times (3/4) = 18$  days

#### Question 29:

A Rs 750 tin of cheese is offered at 8% discount and a Rs 1,250 tin of butter at 20% discount. If we buy 5 tins of cheese and 3 tins of butter, what is the effective discount we get (in %)?

#### **Difficulty : Moderate**

Average Time : 58 Seconds

#### **Options**:

- 1.12
- 2.15
- 3.14
- 4. 16

Solution :

The correct answer is option 3 i.e. 14

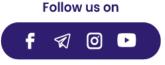
Cheese tin cost = 750

Discount = 8%

Discounted price =  $(92/100) \times 750 = 690$ 

Cost of 5 cheese tins = 3450 eq1

Butter tin cost = 1250



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Discount = 20%

Discounted price =  $1250 \times (80/100) = 1000$ 

Cost of 3 butter tins = 3000 eq2

Total cost = 6450

Total cost without discount = 7500

% = (6450 / 7500) × 100 = 86%

Discount percent = 14%

#### **Question 30:**

What is the unit digit of the sum of first 111 whole numbers ?

#### **Difficulty : Moderate**

#### **Options** :

- 1.4
- 2.6
- 3.5
- 4.0

#### Solution :

The correct answer is option 3 i.e. 5

Sum of first 111 whole numbers = sum of first 110 natural numbers

So,

n = [n(n + 1)]/2

= [110(110 + 1)]/2

= 55 × 111

= 6105

Unit digit = 5

Question 31: How many 100 digit positive number are there ?

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**Difficulty : Moderate** 

**Average Time : 64 Seconds** 

#### **Options**:

- 1.  $9 \times 10^{99}$
- 2.  $9 \times 10^{100}$
- 3. 10100
- 4. 11 × 10<sup>98</sup>

#### Solution :

The correct answer is option 1 ie  $9 \times 10^{99}$ .

	•	
Digits	Positive numbers	
1	$9 = 9 \times 10^{0}$	
2	$90 = 9 \times 10^{1}$	
3	$900 = 9 \times 10^2$	
100	$= 9 \times 10^{99}$	

Question 32 :

What is the value of ?

**Difficulty : Moderate** 

#### **Options** :

- 1. 2
- 2. 1
- 3.3
- 4. 3/2
- Solution : The correct answer is option 1 i.e. 2

Average Time : 72 Seconds

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Average Time: 45 Seconds



 $\frac{\frac{5.6 \times 0.36 + 0.42 \times 3.2}{0.8 \times 2.1}}{\frac{2.016 + 1.344}{1.68}}$ 

= 3.36/1.68

= 2

Question 33 : What is the value of ?

Difficulty : Moderate

#### **Options :**

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

#### Solution :

The correct answer is 4 ie 2.

 $\frac{(1.2)^3 + (0.8)^3 + (0.7)^3 - (2.016)}{(1.35)[(1.2)^2 + (0.8)^2 + (0.7)^2 - 0.96 - 0.84 - 0.56]}$ 

It is of the form  $(a^3 + b^3 + c^3 - abc)$ 

a = 1.2, b = 0.8, c = 0.7

$$\frac{a^{3}+b^{3}+c^{3}-3abc}{\left(\frac{a+b+c}{2}\right)\left(a^{2}+b^{2}+c^{2}-ab-bc-ca\right)}$$
$$\frac{\left(a^{2}+b^{2}+c^{2}-ab-bc-ca\right)\left(a+b+c\right)}{\left(\frac{a+b+c}{2}\right)\left(a^{2}+b^{2}+c^{2}-ab-bc-ca\right)}$$

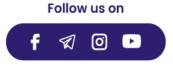
= 2

#### Question 34 :

What is the unit digit of  $(217)413 \times (819)547 \times (414)624 \times (342)812$ ?



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**Difficulty : Moderate** 

Average Time : 57 Seconds

**Options :** 

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

#### Solution :

The correct answer is option 4 ie 8.

 $(217)^{413} \times (819)^{547} \times (414)^{624} \times (342)^{812}$ 

For unit digits, the last two digit of power is considered

 $= (7)^{13} \times (9)^{47} \times (4)^{24} \times (2)^{12}$ = (7)<sup>1</sup> × (9)<sup>1</sup> × (4)<sup>2</sup> × (2)<sup>4</sup> (cyclicity) = 7 × 9 × 6 × 6 3 6 = 3 × 6 = 18

8 = unit digit

#### Question 35 :

Which of the following is true ? a. b. c. d.

#### **Difficulty : Moderate**

#### **Options** :

- 1. Only a
- 2. Only b
- 3. Only c
- 4. Only d

#### Solution :

Average Time : 70 Seconds



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The correct answer is option 3 ie Only c.

$$\frac{1}{\sqrt{5}} > \frac{1}{\sqrt[3]{12}} > \frac{1}{\sqrt[4]{29}}$$

For comparing,

$$= \frac{1}{\sqrt[3]{12}} \frac{1}{4\sqrt{29}}$$

$$= (29^3)^{1/12} \text{ and } (12^4)^{1/12}$$

$$= (21^3)^{1/12} > (12^4)^{1/12}$$

$$= \frac{1}{(29^3)^{\frac{1}{12}}} < \frac{1}{(12^4)^{\frac{1}{12}}}$$

Question 36 :

If S = upto 20 terms, then what is the value of S?

**Difficulty : Moderate** 

#### **Options :**

- 1. 6179/15275
- 2. 6070/14973
- 3. 7191/15174
- 4. 5183/16423

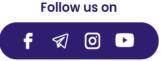
#### Solution :

The correct answer is option 2 ie 6070/14973.

 $S = S_1 + S_2$ 

$$S_{4} = \frac{1}{1 \times 3 \times 5} + \frac{1}{3 \times 5 \times 7} + \dots + \frac{1}{19 \times 21 \times 23}$$
$$= \frac{1}{4} \left[ \frac{1}{1 \times 3} - \frac{1}{3 \times 5} + \frac{1}{3 \times 5} - \frac{1}{5 \times 7} \dots \right]$$
$$= \frac{1}{4} \left[ \frac{1}{3} - \frac{1}{21 \times 23} \right]$$

Average Time : 74 Seconds



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$$S_{2} = \frac{1}{1 \times 4} + \frac{1}{4 \times 7} + \dots + \frac{1}{28 \times 3}$$
$$= \frac{1}{3} \left[ 1 - \frac{1}{4} + \frac{1}{4} - \frac{1}{7} \dots \frac{1}{28} - \frac{1}{31} \right]$$
$$= \frac{1}{3} \left[ 1 - \frac{1}{13} \right]$$

 $S = S_1 + S_2$ 

$$= \frac{1}{4} \left[ \frac{1}{3} - \frac{1}{21 \times 23} \right] + \frac{1}{3} \left[ 1 - \frac{1}{13} \right]$$

#### Question 37:

N is the largest two digit number, which when divided by 3, 4 and 6 leaves the remainder 1, 2 and 4 respectively. What is the remainder when N is divided by 5?

**Difficulty : Moderate** 

#### **Options** :

1.4

- 2. 2
- 3. 0
- 4.1

#### Solution :

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

Negative remainder = 1 - 3 = -2

N = LCM(3, 4, 6) - 2

 $= 12 \times k = -2$ 

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 $12 \times 8 - 2 = 99$ 

= 94/5

= 4 (remainder)

#### **Question 38:**

Which of the following is true ? a. b. c. d.

**Difficulty : Moderate** 

#### **Options**:

- 1. Only a
- 2. Only b
- 3. Only c
- 4. Only d

#### Solution :

The correct answer is option 3 ie Only c.

 $\sqrt[3]{11} > \sqrt{7} > \sqrt[4]{45}$ 

 $(45^3)^{1/12} > (11^9)^{1/12}$ 

So, the order is

 $\sqrt{7} > \sqrt[4]{45} > \sqrt[3]{11}$ 

#### Question 39:

A and B are positive integers. If A + B + AB = 65, then what is the difference between A and B (A, B 15)?

**Difficulty : Moderate** 

Average Time: 80 Seconds

#### **Options**: 1.3

- 2.4

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**Average Time : 69 Seconds** 





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5

4.6

#### Solution :

The correct answer is option 3 ie 5.

A + B + AB = 65

A(1 + B) + B = 65

A = (65 - B)/(1 + B)

as A 15 and B 15

Let, B = 10, A = 55/11 = 5

Therefore, A = 5, B = 10

A - B = 5

```
Question 40 :
What is the value of 14^3 + 16^3 + 18^3 + ... + 30^3?
```

**Difficulty : Moderate** 

#### **Options** :

- 1. 134576
- 2. 120212
- 3. 115624
- 4. 111672

#### Solution :

The correct answer is option 4 ie 111672.

 $14^3 + 16^3 + 18^3 + \ldots + 30^3$ 

 $= 8(7^3 + 8^3 + 9^3 + \ldots + 15^3)$ 

$$\left(\frac{n(n+1)}{2}\right)^2$$

Sum of n cubes =

 $n = 6 = [(6 \times 7)/2]^2 = 441$ 



Average Time : 53 Seconds



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 $n = 15 = [(15 \times 16)/2]^2 = 14400$ 

Difference = 13959

S = 8 × 13959 = 111672

#### Question 41 :

What is the value of ?

#### Difficulty : Moderate

Options :

- 1. 69
- 2. 68
- 3. 70
- 4. 72

#### Solution :

The correct answer is option 2 ie 68.

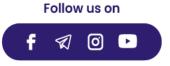
= 4624

= 68

**Question 42 :** If 3x + 5y +7z = 49 and 9x + 8y + 21z = 126, then what is the value of y?

**Difficulty : Moderate** 

Average Time : 54 Seconds



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Average Time : 57 Seconds







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#### **Options**:

- 1.4
- 2. 2
- 3.3
- 4.5

#### Solution :

The correct answer is option 3 i.e. 3

3x + 5y + 7z = 49

Multiplying by 3 on both the sides

9x + 15y + 21z = 147eq1

```
9x + 8y + 21z = 126
                        eq2
```

```
eq1 - eq2
```

```
7y = 21
```

```
y = 3
```

#### **Question 43 :**

Cost of 4 pens, 6 notebooks and 9 files is Rs 305. Cost of 3 pens, 4 notebooks and 2 files is Rs 145. What is the cost (in Rs.) of 5 pens, 8 notebooks and 16 files ?

**Difficulty : Moderate** 

#### **Options**:

- 1. 415
- 2.465
- 3. 440
- 4. Cannot be determined

#### Solution :

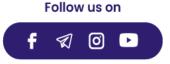
The correct answer is option 2 ie 465.

Let the cost of pen be x.

Cost of notebook be y.

Average Time : 61 Seconds

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Cost of files be x.

4x + 6y + 9z = 305eq1

3x + 4y + 2z = 145eq2

multiplying eq1 by 2

8x + 12y + 18z = 610eq3

eq3 - eq2

8x + 12y + 18z - (3x + 4y + 2z) = 465

5x + 8y + 16z = 465

#### **Question 44:**

ABC is a right angled triangle. BAC = 90° and ACB = 60°. What is the ratio of the circum radius of the triangle to the side AB?

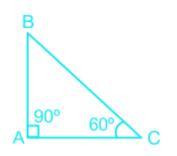
**Difficulty : Moderate** 

#### **Options**:

- 1.1:2
- 2.1:3
- 3. 2:3
- 4.2:3

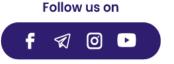
#### Solution :

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



Circumradius = hypotenuse/2

 $sin60^{\circ} = AB/BC$ 



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3/2 = AB/H

3/2 = AB/2R

R = AB/3

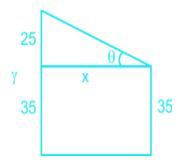
R/AB = 1/3

#### Question 45 :

In the given figure, ABCD is a square whose sides is 4 cm. P is a point on the side AD. What is the minimum value (in cm) of BP + CP ?

**Difficulty : Moderate Options**: 1.45 2.44 3. 63 4.46 Solution :

The correct answer is option is 1 ie 45.



CD = 4 cm

It will be minimum when P is the midpoint of DA

AP = PD = 2 cm

So,

CP = (16 + 4) = 20 = 25

And



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BP = 25

Hence,

CP + BP = 45

#### **Question 46 :**

In the given figure, B and C are the centres of the two circles. AD is the common tangent to the two circles. If the ratio of the radius of both the circles is 3 : 5 and AC = 40, then what is the value of DE ?

Average Time: 85 Seconds

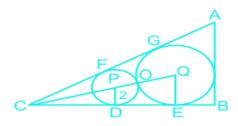
Difficulty	:	Moderate
------------	---	----------

#### **Options** :

- 1. 315
- 2. 515
- 3. 615
- 4. 415

#### Solution :

The correct answer is option 4 i.e. 415



Since the ratio of the radius of both the circles is 3:5, let DB = 3x and EC = 5x;

Since triangle ABD and ACE are similar, AB : AC = 3 : 5;

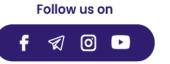
AB : BC = 3 : 2

Since AC = 40, BC =  $2/5 \times 40 = 16$ 

BC = 3x + 5x = 16

BD = 3x = 6 and EC = 5x = 10.

Triangle AEC is the right angle triangle;



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 $\hat{a} \in \hat{a} = AC^2 - EC^2$ 

 $AE^2 = 1600 - 100 = 1500$ 

AE = 1015

Since AD : DE = 3 : 2

DE = 2/5 × 1015 = 415

#### Question 47 :

In the given figure, AB = 30 cm and CD = 24 cm. What is the value (in cm) of MN ?

Difficulty : Moderate

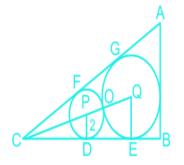
Average Time : 113 Seconds

#### Options :

- 1. 18
- 2. 9
- 3. 12
- 4. 5

#### Solution :

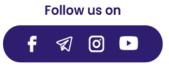
The correct answer is option 1 i.e. 18.



In the figure we can see;

 $x^{2} = r^{2} - 12^{2}$ And  $x^{2} = R^{2} - 15^{2}$  $r^{2} - 12^{2} = R^{2} - 15^{2}$  $R^{2} - r^{2} = 225 - 144 = 81$ 

In triangle POM;



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$$R^2 - r^2 = PM^2$$

$$PM^{2} = 81$$

PM = 9

 $MN = 2 \times PM = 18 \text{ cm}.$ 

#### Question 48 :

AB and AC are two tangents to a circle whose radius is 6 cm. If BAC = 60°, then what is the value (in cm) of (AB<sup>2</sup> + AC<sup>2</sup>)?

Difficulty : Moderate Average Time : 101 Seconds
Options :
1. 66
2. 46
3. 93
4. 83
Solution :
The correct answer is option 1 i.e. 66.

35

tan60° = AB/BO

3 = AB/6

35

AB = 63 = AC

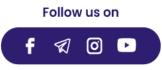
Hence,

 $(AB^2 + AC^2) = [(63)^2 + (63)^2] = 66 \text{ cm}$ 

×

#### Question 49 :

In the given figure, ABC is a right angled triangle. ABC = 90° and ACB = 60°. If the radius of the smaller circle is 2 cm, then



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#### what is the radius (in cm) of the larger circle ?

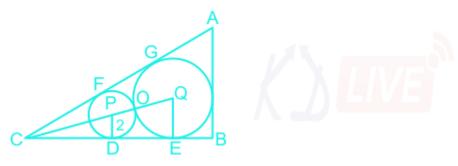
#### Difficulty : Moderate

#### **Options :**

- 1. 4
- 2. 6
- 3. 4.5
- 4. 7.5

#### Solution :

The correct answer is **option 2** i.e. **6**.



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 $ACB = 60^\circ$ ,  $ACP = PCB = 30^\circ$ .

In triangle CPD;

Sin30 = PD/CP

CP = 4 cm

In triangle CQE;

Sin30 = QE/CQ

QC = 2QE

Let radius of larger circle = QE = QO = R cm

QC = 2R

QC = QO + OP + PC

2R = R + 2 + 4

R = 6 cm

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Average Time : 77 Seconds



Radius of larger circle = 6 cm

### **Question 50 :**

In the given figure, O is the centre of the circle. Circle has 3 tangents. If QPR = 45°, then what is the value (in degrees) of QOR ?

**Difficulty : Moderate** 

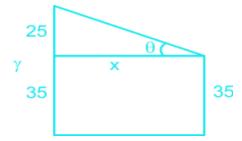
Average Time : 159 Seconds

### **Options :**

- 1. 67.5
- 2. 72
- 3. 78.5
- 4. 65

### Solution :

The correct answer is option 1 i.e. 67.5.



 $QPR = 45^{\circ}$ 

 $QOR = 90^\circ - QPR/2$ 

= 90° - (45/2)

= 67.5°

### Question 51 :

In the given figure, two identical circles of radius 4 cm touch each other. A and B are the centres of two circles. If RQ is a tangent to the circle, then what is the length (in cm) of RQ?

**Difficulty : Moderate** 

Average Time : 62 Seconds

### **Options** :

1. 33



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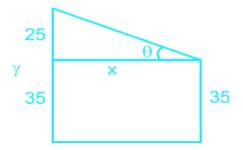


26

- 3. 42
- 4. 62

### Solution :

The correct answer is option 3 i.e 42



In the figure,

AP = AO + OP = 4 + 8 = 12 cm and AS = 4 cm

$$PS^2 = 12^2 - 4^2$$

PS = 82 cm

Now triangles ASP and RQP are similar;

AS/RQ = SP/QP

4/RQ = 82/16

RQ = 64/82

RQ = 42 cm

### Question 52 :

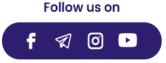
The radius of two circles is 3 cm and 4 cm. The distance between the centres of the circles is 10 cm. What is the ratio of the length of direct common tangent to the length of the transverse common tangent ?

**Difficulty : Moderate** 

**Options** :

- 1. 51:68
- 2. 33 : 17

Average Time : 118 Seconds



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### 66:51

4. 28:17

### Solution :

The correct answer is option 2 ie 33 : 17.

 $\sqrt{\partial^2 - (r1 - r2)^2}$ Direct common tangent =

Transverse common tangent =  $\sqrt{\partial^2 - (r1 + r2)^2}$ 

DCT/TCT = 
$$\frac{\sqrt{[\partial^2 - (r1 - r2)^2]}}{\sqrt{[\partial^2 - (r1 + r2)^2]}}$$

$$\frac{\sqrt{100-1}}{\sqrt{51}}$$

= 91/51

= 33/17

### **Question 53:**

ABC is a triangle. AB = 5 cm, AC = 41 cm and BC = 8 cm. AD is perpendicular to BC. What is the area (in cm2) of triangle ABD ?

**Difficulty : Moderate** 

### **Options**:

- 1. 12
- 2.6
- 3. 10
- 4. 20

Solution :

The correct answer is option 2 i.e. 6.

Average Time: 78 Seconds



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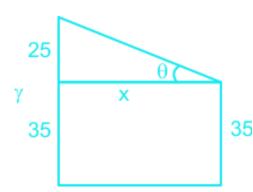
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AB = 5 cm, AC = 41 cm and BC = 8 cm

Applying cos theorem;

 $CosB = (5^{2} + 8^{2} - 41)/(2 \times 5 \times 8) = 3/5$ 

Now in triangle ABD;

AB = 5 cm & CosB = 3/5

 $BD = 5 \times 3/5 = 3 \text{ cm}$ 

AD = 4 cm (Pythagoras theorem)

Area of triangle ABD =  $\frac{1}{2} \times 4 \times 3 = 6 \text{ cm}^2$ 

### **Question 54 :**

In the given figure, PQR is the triangle and quadrilateral ABCD is inscribed in it. QD = 2 cm, QC = 5 cm, CR = 3 cm, BR = 4 cm, PB = 6 cm, PA = 5 cm and AD = 3 cm. What is the area (in cm<sup>2</sup>) of the quadrilateral ABCD ?

**Difficulty : Moderate** 

Average Time : 113 Seconds

### **Options**:

- 1. (2321) / 4
- 2. (1521) / 4
- 3. (1721) / 5
- 4. (2321) / 5

### Solution :

The correct answer is option 3 i.e. (1721) / 4.

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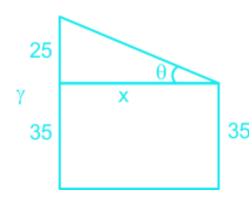




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Area PQR = (QR/4)  $(4PQ^2 - QR^2)$ 

= (8/4) (400 - 64)

 $= 2 \times 421 = 821 \text{ cm}^2$ 

Area of PAB in ratio to Area of PQR

 $= (5 \times 6)/(10 \times 30) = 3/10$ 

Area of QDC ratio to area of PQR

$$= (2 \times 5)/(10 \times 8) = 10/80 = 1/8$$

BCR ratio to PQR

 $= (4 \times 3)/(10 \times 8) = 12/80 = 3/20$ 

Area (ABCD) = Area of triangle PQR - (Ar PAB + DQC + BCR)

= 821 - [3/10 + 1/8 + 3/20] × 821

= 821 - (46/80) 821

= (1721) / 5 cm<sup>2</sup>

### **Question 55 :**

In the given figure, ABCDEF is a regular hexagon whose side is 6 cm. APF, QAB, DCR, and DES are equilateral triangles. What is the area (in cm<sup>2</sup>) of the shaded region?

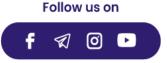
**Difficulty : Moderate** 

#### Average Time : 111 Seconds

1. 243

**Options** :

2. 183



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723

4. 363

### Solution :

The correct answer is option 3 i.e. 723.

Area of an equilateral triangle of side 6 cm =  $3/4 \times 36 = 93$ 

Hence,

Area of the shaded region =  $8 \times$  Area of 1 equilateral triangle

 $= 8 \times 93$ 

= 723

### **Question 56 :**

In the given figure, ABCD is a square of side 14 cm. E and F are mid points of sides AB and DC, respectively. EPF is a semicircle whose diameter is EF. LMNO is a square. What is the area (in cm<sup>2</sup>) of the shaded region ?

**Difficulty : Moderate** 

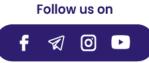
Average Time : 63 Seconds

### **Options**:

- 1. 108.5
- 2. 94.5
- 3.70
- 4. 120

### Solution :

The correct answer is option 2 i.e. 94.5



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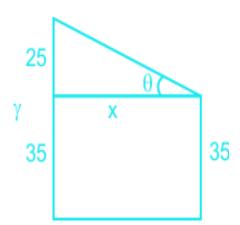






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Area of square ABCD =  $14 \times 14 = 196 \text{ cm}^2$ 

Area of semicircle =  $(\times 7^2)/2 = 77 \text{ cm}^2$ 

Diaognal LN = 14/2 = 7 cm

So, Side of square LMNO = 7/2 cm

```
So, Area of square LMNO = (7/2)^2 = 49/2 = 24.5
```

Hence,

Area of shaded region = 196 - (77 + 24.5) = 94.5

### Question 57:

Length and breadth of a rectangle are 8 cm and 6 cm respectively. The rectangle is cut on its four vertices such that the resulting figure is a regular octagon. What is the side (in cm) of the octagon ?

**Difficulty : Moderate** 

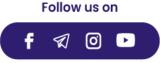
### **Options** :

- 1. 311 7
- 2. 513 8
- 3. 47 11
- 4. 611 9

### Solution :

The correct answer is option 1 i.e. 311 - 7.

Let ABCD be the rectangle such that AB = CD = 8 cm and BC = DA = 6 cm.



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Average Time: 78 Seconds



Let the side of the regular octagon = s

Let the 4 verticles be trimmed such that x is on sides BC and DA and y is on sides AB and CD.

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So, at 4 verticles we are cutting off right angled triangles of sides x and y while their hypotenuse is s.

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2y + s = 8eq1 2x + s = 6eq2  $X^2 + Y^2 = S^2$ eq3 From eq1, y = (8 - s)/2From eq2, x = (6 - s)/2Now, eq3 becomes  $[(6 - s)/2]^2 + [(8 - s)/2]^2 = s^2$  $[(6 - s)/2]^2 + [(8 - s)/2]^2 = 4 s^2$  $36 - 12s + s^2 + 64 - 16s + s^2 = 4 s^2$  $100 - 28s - 2s^2 = 0$  $s^2 + 14s - 50 = 0$  $s = [-14 \pm (14^2 + 200)]/2$  $s = [-14 \pm 611]/2$ 

s = 311 - 7

So, the sides of the regular octagon are (311 - 7) cm

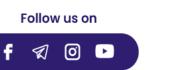
### Question 58 :

In the given figure, radius of a circle is 142 cm. PQRS is a square. EFGH, ABCD, WXYZ and LMNO are four identical squares. What is the total area (in cm<sup>2</sup>) of all the small squares ?

**Difficulty : Moderate** 

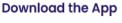
**Options :** 

- 1. 31.36
- 2. 125.44



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Average Time : 179 Seconds





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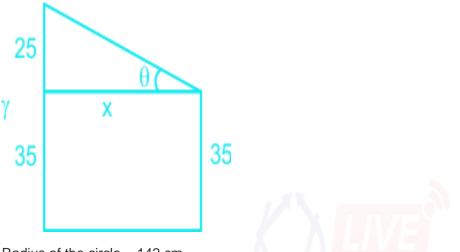
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- 62.72
- 4. 156.8

### Solution :

The correct answer is option 2 i.e. 125.44



Radius of the circle = 142 cm

So,

Diameter of the circle = 282 cm

And

Side of the larger square = 282/2 = 28 cm

Let the side of smaller square be x.

x = (Length of diameter - length of a side)/2

= (282 - 28)/2

= 142 - 14

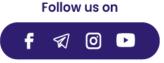
= 14(2 - 1)

 $= 14 \times 0.4 = 5.6$ 

Area =  $x^2 = 31.36$ 

Hence,

Area of 4 squares = 31.36 x 4 = 125.44



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### **Question 59 :**

In the given figure, AB, AE, EF, FG and GB are semicircles. AB = 56 cm and AE = EF = FG = GB. What is the area (in cm<sup>2</sup>) of the shded region ?

#### **Difficulty : Moderate**

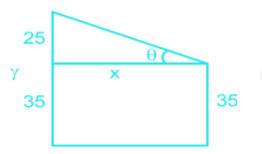
Average Time : 91 Seconds

### **Options :**

- 1. 414.46
- 2. 382.82
- 3. 406.48
- 4. 394.24

### Solution :

The correct answer is **option 4** i.e. **394.24** 



Let OD = x = radius of circle

$$OF = (28 - x)$$

$$OM = (x + 7)$$

Now, applying pythogoras theorem

$$(7 + x)^2 = 7^2 + (28 - x)^2$$

$$x^{2}$$
 + 14x + 49 = 49 + 784 +  $x^{2}$  - 56x

70x = 784

Area of circle = 
$$r^2 = \times (11.2)^2$$

= 394.24 cm<sup>2</sup>

### Question 60 :

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A right prism has a square base with side of base 4 cm and the height of the prism is 9 cm. The prism is cut into threeparts of equal heights by two planes parallel to its base. What is the ratio of the volume of the top, middle and bottom part respectively?

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**Difficulty : Moderate** 

Average Time : 93 Seconds

### **Options**:

- 1.1:1:1
- 2.1:7:19
- 3. 1:8:20
- 4. 1:7:20

### Solution :

The correct answer is option 1 ie 1 : 1 : 1.

Ratio of the volume = 1 : 1 : 1 as the height is same, base is same.

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Therefore, the volume is also same.

### Question 61:

Radius of base of a hollow cone is 8 cm and its height is 15 cm. A sphere of largest radius is put inside the cone. What is the ratio of the radius of base of cone to the radius of shpere ?

#### **Difficulty : Moderate**

### **Options** :

- 1.5:3
- 2.4:1
- 3.2:1
- 4.7:3

### Solution :

The correct answer is option 1 ie 5 : 3.

**Average Time : 50 Seconds** 



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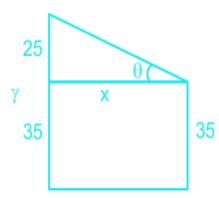






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Radius of base of cone = 8 cm

Height = 15 cm

AM = 15

Let OM = r [radius of sphere]

In AOD and AMC

 $D = M = 90^{\circ}$ 

A = common

So, AOD ~ AMC

Now, 17/(15 - r) = 8/r; r = 24/5

Radius of cone/Radius of sphere =  $(8 \times 5)/24$ 

= 5 : 3

### **Question 62:**

The ratio of curved surface area of a right circular cylinder to the total area of its two bases is 2 : 1. If the total surface area of cylinder is 23100 cm2, then what is the volume (in cm3) of cylinder ?

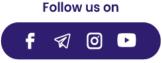
**Difficulty : Moderate** 

#### **Options** :

- 1. 247200
- 2. 269500
- 3. 312500
- 4. 341800



Average Time : 82 Seconds



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Solution :

The correct answer is option 2 i.e. 269500.

C.S.A = 2rh

Total area of two bases =  $2r^2$ 

Ratio =  $2rh/2r^2 = h/r = 2/1$  (given)

h = 2r

T.S.A = 23100

2r(r + h) = 23100

 $6r^2 = 23100$ 

r = 35

Volume =  $r^{2}h = 2r^{3} = 269500$ 

### Question 63 :

A solid cylinder has radius of base 14 cm and height 15 cm. 4 identical cylinders are cut from each base as shown in the given figure. Height of small cylinder is 5 cm. What is the total surface area (in cm<sup>2</sup>) of the remaining part ?

**Difficulty : Moderate** 

Average Time: 73 Seconds

### **Options**:

- 1. 3740
- 2. 3432
- 3. 3124
- 4. 2816

### Solution :

The correct answer is option 2 ie 3432.

Remaining T.S.A = T.S.A(initial) + 8 × C.S.A (small cylinder)

$$= 2r(r + h) + 8 \times 2r'h$$
  
= 2 × 14 × 29 + 8 × 2 (7/2) × 5  
= 2(14 × 29 + 20 × 7)  
= 2 (546)

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= 3432

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### Question 64 :

10 identical solid spherical balls of radius 3 cm are melted to form a single sphere. In this process 20% of solid is wasted. What is the radius (in cm) of the bigger sphere ?

**Difficulty : Moderate** 

### **Options :**

- 1. 24
- 2. 12
- 3. 8
- 0. 0
- 4. 6

### Solution :

The correct answer is option 4 ie 6.

Volume of 10 balls =  $10 \times (4/3) \times \times 3^3$ 

 $= 10 \times 4 \times 9 \times = 1131.42$ 

Remaining volume = 0.8 × 1131.42 = 905.14

$$905.14 = (4/3) \times \times (R)^3$$

 $R^3 = (905.14 \times 3 \times 7)/88 = 216$ 

R = 6

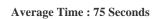
### Question 65 :

The radius of base of solid cylinder is 7 cm and its height is 21 cm. It is melted and converted into small bullets. Each bullet is of same size. Each bullet consisted of two parts viz. a cylinder and a hemisphere on one of its base. The total height of bullet is 3.5 cm and radius of base is 2.1 cm. Approximately how many complete bullets can be obtained ?

Difficulty : Moderate

### **Options** :

- 1.83
- 2.89



Average Time : 80 Seconds

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74

4.79

### Solution :

The correct answer is option 1 ie 83.

Volume of solid cylinder =  $r^2h = (22/7) \times (7^2) \times 21$ 

Volume of 1 bullet =  $r_{1}^{2}h + (2/3)r_{1}^{3}$ 

$$= r_{1}^{2} [h + (2/3) \times r_{1}]$$

$$= (22/7) \times (2.1)^{2} [1.4 + (2/3) \times 2.1]$$

$$= 22 \times 0.3 \times 2.1 (1.4 + 1.4)$$

$$= 22 \times 0.3 \times 2.1 \times 2.8$$

$$= 38.808$$

No. of bullets = 3234/38.80 = 83.33 83

### Question 66 :

A cuboid of size 50 cm × 40 cm × 30 cm is cut into 8 identical parts by 3 cuts. What is the total surface area (in cm<sup>2</sup>) of all the 8 parts ?

**Difficulty : Moderate** 

### **Options** :

- 1. 11750
- 2. 14100
- 3. 18800
- 4. 23500

Solution :

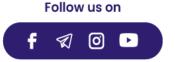
The correct answer is option 3 ie 18,800.

 $T.S.A = 8 \times (T.S.A of 1 part)$ 

 $= 8 \times 2(lb + bh + lh)$ 

**Average Time : 97 Seconds** 





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 $= 8 \times 2(20 \times 25 + 25 \times 15 + 15 \times 20)$ 

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 $= 8 \times 2(1175)$ 

= 18,800

### Question 67 :

A right triangular pyramid XYZB is cut from cube as shown in figure. The side of cube is 16 cm. X, Y and Z are mid points of the edges of the cube . What is the total surface area (in cm<sup>2</sup>) of the pyramid ?

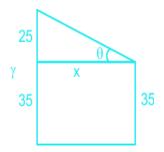
**Difficulty : Moderate** 

### Options :

- 1. 48(3 + 1)
- 2. 24(4 + 3)
- 3. 28(6 + 3)
- 4. 32(3 + 3)

### Solution :

The correct answer is option 4 ie 32(3 + 3).



T.S.A = Base triangle area + face triangle area

$$= (3/4) \times (82)^2 + 3 \times (1/2) \times 8 \times 8$$

- = 151.4256
- = 32(3 + 3)

### Question 68 :

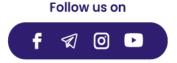
What is the value of  $[(\sin x + \sin y)(\sin x - \sin y)] / [(\cos x + \cos y)(\cos y - \cos x)]$ ?

Difficulty : Moderate

Average Time : 64 Seconds

Options :

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Average Time : 62 Seconds





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0

- 2.1
- 3. -1
- 4. 2

### Solution :

The correct answer is option 2 ie 1.

Putting  $x = 10^\circ$ ,  $y = 0^\circ$ 

 $= [(\sin x + \sin y)(\sin x - \sin y)] / [(\cos x + \cos y)(\cos y - \cos x)]$ 

 $= (1 \times 1)/(1 \times 1)$ 

= 1

### Question 69:

What is the value of  $[(\tan 5 + \tan 3)/\{4 \cos 4(\tan 5 - \tan 3)\}]?$ 

**Difficulty : Moderate** 

**Average Time : 51 Seconds** 

### **Options** :

- 1. sin 2
- 2. cos 2
- 3. tan 4
- 4. cot 2

Solution :

The correct answer is Option 2 i.e cos 2

[(tan 5 + tan 3)/{4 cos 4(tan 5 - tan 3)}]

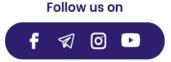
Put =  $15^{\circ}$ 

 $= [2 + 3 + 1] / [4 \times (1/2)(1 + 3)]$ 

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

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

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= 3/2

Going through option

 $\sin 2 = \sin 30^{\circ} = 1/2$ 

 $\cos 2 = \cos 30^\circ = 3/2$ 

Tan 4 = Tan  $60^\circ$  = 3

 $Cot 2 = Cot 30^{\circ} = 3$ 

### Question 70 :

What is the value of (4/3) cot<sup>2</sup> (/6) + 3 cos<sup>2</sup> (150°) - 4 cosec<sup>2</sup> 45° + 8 sin (/2) ?

**Difficulty : Moderate** 

### **Options** :

- 1. 25/4
- 2. 1
- 3. -7/2
- 4. 13/2

### Solution :

The correct answer is option 1 i.e. 25/4.

 $= (4/3) \cot^2(/6) + 3 \cos^2(150^\circ) - 4 \csc^2 45^\circ + 8 \sin(/2)$ 

 $= (4/3) \times 3 + 3 \times (-3/2)^2 - 4 \times (2)^2 + 8 \times 1$ 

 $= 4 + 3 \times 3/2 - 4 \times 2 + 8 \times 1$ 

= 4 + (9/4)

= 25/4

Question 71: What is the value of sin(B - C) cos(A - D) + sin (A - B) cos(C - D) + sin(C - A) cos (B - D)?

**Difficulty : Moderate** 

Average Time : 58 Seconds

### **Options**:

1. 3/2

f କ୍ଷ Ø 

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Average Time : 78 Seconds





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-3

- 3.1
- 4.0

### Solution :

The correct answer is Option 4 i.e 0

Put A = B = C = D

= sin(B - C) cos(A - D) + sin (A - B) cos(C - D) + sin(C - A) cos (B - D)

= 0 + 0 + 0

= 0

### Question 72:

What is the value of ?

**Difficulty : Moderate** 

### **Options** :

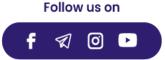
- 1.1
- 2. -1
- 3.0
- 4. 2

### Solution :

The correct answer is option is 2 ie -1.

$$= \frac{[4\cos(90 - A)\sin^{3}(90 + A)] - [4\sin(90 + A)\cos^{3}(90 - A)]}{\cos(\frac{180 + 8A}{2})}$$
$$= \frac{4\sin A\cos A[\cos^{2} A - \sin^{2} A]}{\cos(90 + 4A)}$$
$$= \frac{2 \times 2\sin A\cos A \times \cos 2A}{-\sin 4A}$$

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= -1

### **Question 73:**

What is the value of  $\cos[(180 - )/2] \cos[(180 - 9)/2] + \sin[(180 - 3)/2] \sin[(180 - 13)/2]$ ?

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**Difficulty : Moderate** 

Average Time : 55 Seconds

### **Options** :

- 1. sin2 sin4
- 2. cos2 cos6
- 3. sin2 sin6
- 4. cos2 cos4

### Solution :

The correct answer is option 2 ie cos2 cos6.

$$= \cos\left(90 - \frac{\theta}{2}\right)\cos\left(90 - \frac{9\theta}{2}\right) + \sin\left(90 - \frac{3\theta}{2}\right)\sin\left(90 - \frac{13\theta}{2}\right)$$
$$= \frac{\sin\left(\frac{\theta}{2}\right)\sin\left(\frac{9\theta}{2}\right) + \cos\left(\frac{3\theta}{2}\right)\cos\left(\frac{13\theta}{2}\right)}{\frac{1}{2}\left[\cos 4\theta - \cos 5\theta\right] + \frac{1}{2}\left[\cos 8\theta + \cos 5\theta\right]}$$
$$= \frac{1}{2}\left[\cos 4\theta - \cos 5\theta + \cos 8\theta + \cos 5\theta\right]$$
$$= \frac{1}{2}\left[\cos 4\theta + \cos 8\theta\right]$$
$$= \cos 2\cos 6$$

### **Question 74:**

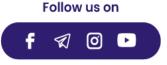
What is the value of [tan<sup>2</sup>(90 - ) - sin<sup>2</sup>(90 - )] cosec<sup>2</sup>(90 - ) cot<sup>2</sup>(90 - )?

**Difficulty : Moderate** 

Average Time: 73 Seconds

### **Options**:

- 1.0
- 2.1



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-1

4. 2

### Solution :

The correct answer is option 2 ie 1.

Put =  $45^{\circ}$ 

```
= [tan^{2}45^{\circ} - sin^{2}45^{\circ}] (cosec^{2}45^{\circ})(cot^{2}45^{\circ})
```

= (1 - 1/2) (2)(1)

= 1

### **Question 75:**

Two points P and Q are at the distance of x and y (where y > x) respectively from the base of a building and on a straight line. If the angles of elevation of the top of the building from points P and Q are complementary, then what is the height of the building?

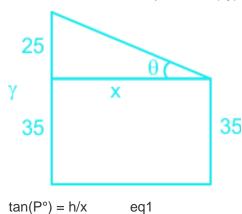
Average Time : 59 Seconds

**Difficulty : Moderate** 

### **Options** :

- 1. xy
- 2. (y/x)
- 3. (x/y)
- 4. (xy)

### Solution :



The correct answer is option 4 ie (xy).

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 $\tan(90 - P^\circ) = h/y$ 

 $tan(Q^{\circ}) = h/y$ eq2

from eq1 and eq2

h = (xy)

### **Question 76 :**

A navy captain going away from a lighthouse at the speed of 4[3 - 1]m/s. He observes that it takes him 1 minute to change the angle of elevation of the top of the lighthouse from 60° to 45°. What is the height (in meters) of the lighthouse?

Average Time: 74 Seconds

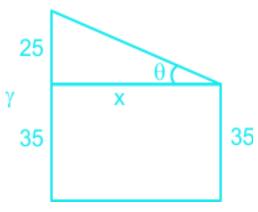
**Difficulty : Moderate** 

### **Options** :

- 1. 2403
- 2. 480[3 1]
- 3. 3603
- 4. 2802

### Solution :

The correct answer is option 1 ie 2403.



Time taken is 1 min

Speed = 4(3 - 1)m/s

Distance =  $60 \times 4 (3 - 1)$ 

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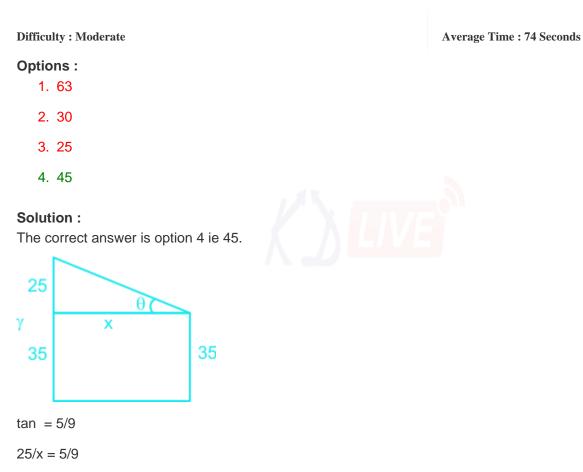


height =  $x \times 3$ 

= 2403

### Question 77 :

The tops of two poles of height 60 m and 35 m are connected by a rope. If the rope makes an angle with the horizontal whose tangent is 5/9 m, then what is the distance (in meters) between the two poles?



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x = 45

### Question 78 :

The table given below shows the number of applicants who have applied for exam at various centres as percentage of total number of applicants. The table also shows the number of online applicants and absent applicants as a percentage of total applicants of each centre. Total number of applicants is 12,00,000. Exam Centre Total Applicants Online Applicants F Absent Applicants 25% 44% Н 15% 30% 36% G 25% 20% 52% 32% J 24% 46% 18% 16% 38% 20% If A Κ equals to 15% of total applicants who are present at exam centre F and B equals to present applicants at exam centre K, then A is what percent of B?





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**Difficulty : Moderate** 

**Average Time : 100 Seconds** 

Average Time : 104 Seconds

**Options** :

- 1. 18.18
- 2. 15.18
- 3. 13.33
- 4. 14.28

### Solution :

The correct answer is option 2 ie 15.18

A= 15% of 81%

B = 80%

 $(A/B) \times 100 = (15 \times 81) / 80$ 

```
= 1215/80 × 100
```

```
= 15.18 %
```

### Question 79 :

The table given below shows the number of applicants who have applied for exam at various centres as percentage of total number of applicants. The table also shows the number of online applicants and absent applicants as a percentage of total applicants of each centre. Total number of applicants is 12,00,000. Exam Centre Total Applicants Online Applicants F 30% G 44% Absent Applicants 15% 36% 25% 25% Н 32% J 20% 52% 24% 46% 18% Κ 16% 38% 20% Total number of offline applicants from exam centre H, K and F are how much less than the total number of present applicants from exam centre G and J?

Difficulty : Moderate

### **Options** :

- 1. 111420
- 2. 100920
- 3. 127370
- 4. 109990

Solution :

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The correct answer is option 2 ie 100920.

Offline applicants of (H + F + K)

= (9.6% + 9.92% + 10.5%)

= 30.02%

Present applicants of (G + J)

=(18.75% + 19.68%)

= 38.43%

Difference = 8.41%

= 8.41% × 12,00,000

= 1,00,920

### Question 80:

The table given below shows the number of applicants who have applied for exam at various centres as percentage of total number of applicants. The table also shows the number of online applicants and absent applicants as a percentage of total applicants of each centre. Total number of applicants is 12,00,000. Exam Centre Total Applicants Online Applicants Absent Applicants F 15% 30% 36% G 25% 44% 25% Н 20% 52% 32% J 24% 46% 18% Κ 16% 38% 20% What are the total number of offline applicants from the exam centre F, H, J and G ?

Average Time : 110 Seconds

**Difficulty : Moderate** 

### **Options**:

- 1. 393720
- 2. 963000
- 3. 564720
- 4. 428540

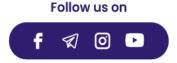
### Solution :

The correct answer is option 3 ie 564720.

Offline applicants (F, H, J and G)

=(10.5% + 9.6% + 12.96% + 14%)

= 47.06%



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= 47.06% × 12,00,000

= 564720

### Question 81 :

The table given below shows the number of applicants who have applied for exam at various centres as percentage of total number of applicants. The table also shows the number of online applicants and absent applicants as a percentage of total applicants of each centre. Total number of applicants is 12,00,000. Exam Centre Total Applicants Online Applicants Absent Applicants F 15% 30% 36% G 25% 44% 25% Н 20% 52% 32% J 24% 46% 18% Κ 16% 38% 20% What is the ratio of total number of present applicants from exam centre K to total number of offline applicants from exam centre J?

Difficulty : Moderate Average Time : 99 Seconds
Options :
1. 40 : 41
2. 80 : 81
3. 10 : 9
4. 7 : 11

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### Solution :

The correct answer is option 2 ie 80 : 81.

Total number of present applicants from K = 16% × 80% × 12,00,000

Offline applicants from J = 54% of 24% of 12,00,000

Ratio = (16% × 80% × 12,00,000) / (54% × 24% × 12,00,000)

= 80/81

### Question 82 :

The table given below shows the number of applicants who have applied for exam at various centres as percentage of total number of applicants. The table also shows the number of online applicants and absent applicants as a percentage of total applicants of each centre. Total number of applicants is 12,00,000. Exam Centre Total Applicants Online Applicants F Absent Applicants 15% 30% 36% G 25% 44% 25% Н 20% 52% 32% J 24% 46% 18% Κ 16% 38% 20% What are the total number of present applicants from exam centre H and G together ?

**Difficulty : Moderate** 

Average Time : 98 Seconds

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### **Options** :

- 1. 2,38,200
- 2. 1,51,800
- 3. 3,88,200
- 4. 4,42,650

### Solution :

The correct answer is option 3 ie 3,88,200.

Applicants present from  $H = (1/4) \times (3/4) \times 12,00,000$ 

= 2,25,000

Applicants present from  $G = (1/5) \times (68/100) \times 12,00,000$ 

= 1,63,200

Sum = 2,25,000 + 1,63,200 = 3,88,200

### **Question 83:**

Solution A contains 10% acid and solution B contains 30% acid. In what ratio should solution A be mixed with solution B to obtain a mixture with 25% acid ?

### **Difficulty : Moderate**

Average Time : 64 Seconds

### **Options** :

- 1.1:2
- 2.3:1
- 3.1:3
- 4.2:1

### Solution :

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

Acid present in solution A = 10%

Acid present in solution B = 30%



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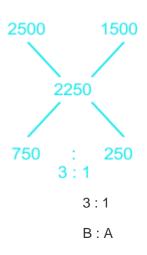






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### **Question 84 :**

In what ratio should coffee powder costing Rs 2500/kg be mixed with coffee powder costing Rs 1500/kg so that the cost of the mixture is Rs 2250/kg ?

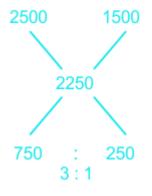
#### **Difficulty : Moderate**

### **Options** :

- 1.1:4
- 2.4:1
- 3.3:1
- 4.1:3

### Solution :

The correct answer is option 3 ie 3 : 1.



**Question 85:** 

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A and B started a partnership business investing in the ratio of 3 : 8. C joined them after 4 months with an amount equal to 3/4th of B. What was their profit (in Rs) at the end of the year if C got Rs 24,000 as his share ?

Difficulty : Moderate

### **Options** :

- 1. 1,20,000
- 2. 1,50,000
- 3. 90,000
- 4. 1,80,000

### Solution :

The correct answer is option 3 ie 90,000.

Let investment of A and B be 3x and 8x.

Investment of  $C = (3/4) \times 8x = 6x$ 

Ratio of their profits = 3:8:4

Share of C = 24000

 $(4/15) \times x = 24000$ 

x = 90000

### Question 86 :

A batsman scores 87 runs in the 21st match of his career. His average runs per match increase by 2. What was his average before the 21st match ?

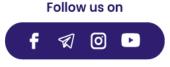
Difficulty	:	Moderate
------------	---	----------

### Options :

- 1. 45
- 2. 46
- 3. 44
- 4. 43

**Solution :** The correct answer is option 1 ie 45.

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Sum of scores till 20 matches = x

Average of 20 matches = y

x = 20y

(x + 87)/21 = y + 2

20y + 87 = 21y + 42

y = 45

### Question 87 :

Oil equals to 20% of weight of groundnut is extracted in a mill. The matter left after extraction is sold as cattle feed at the rate of Rs 12.5/kg. The groundnuts are bought at Rs 20/kg. The processing cost is Rs 5/kg. At what price (Rs per kg) should the oil be sold to earn 20% profit on the total cost. (Total cost = Cost of groundnuts and processing cost) ?

**Difficulty : Moderate** 

### **Options :**

- 1. 250
- 2. 150
- 3. 200
- 4. 100
- 5. 300

### Solution :

The correct answer is **option 4** i.e. **100**.

For 5 kg,

Cost = 100 + 25 = 125 Rs

SP = (20/100) × 125 + 125 = 150 Rs

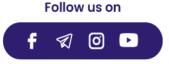
SP = 1 kg oil + 4 kg cattle feed

 $150 = 1 \text{ kg oil} + (4 \times 12.5)$ 

1 kg oil = 150 - 50

= 100 Rs /kg

### Question 88 :



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If a vendor sells a coconut at Rs 14.4 he makes 10% loss. If he wants to make 25% profit, then at what price (in Rs)should he sell the coconut?

**Difficulty : Moderate** 

**Options :** 

- 1. 18
- 2. 20
- 3. 16
- 4. 22

### Solution :

The correct answer is **option 2** i.e. **20** 

SP = 14.4

Loss % = 10%

 $0.9 \times CP = 14.4$ 

CP = 14.4/0.9 = 16

Required profit = 25%

So,

SP = 1.25 × 16 = Rs. 20

### Question 89 :

At a village trade fair a man buys a horse and a camel together for Rs 51,250. He sold the horse at a profit of 25% and the camel at a loss of 20%. If he sold both the animals at the same price, then the cost price of the cheaper animal was ?

Difficulty : Moderate

### **Options :**

- 1. 6600
- 2. 7500
- 3. 25000
- 4. 20000



Average Time : 64 Seconds

Average Time : 61 Seconds



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Solution :

The correct answer is option 4 ie 20000.

Price of horse = x

Price of camel = y

x + y = 51250

SP of horse = (1/4)x + x = 5x/4

SP of camel = y - y/5 = 4y/5

SP = 5x/4 = 4y/5

25x = 16y

Now, cheaper animal is horse as SP has to be same.

Putting the value of x = 20000, the equations are satisfied.

### **Question 90:**

On a certain item, profit is 150%. If the cost price increases by 25%, what will be the new profit margin (in %)?

#### **Difficulty : Moderate**

### **Options**:

- 1.25
- 2.50
- 3. 100
- 4.75

Solution :

The correct answer is option 3 i.e. 100

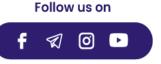
CP = x

SP = 2.5x

Now,

CP = 1.25x

SP = 2.5x



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Average Time : 66 Seconds



 $Profit = (2.5x - 1.25x)/(1.25x) \times 100$ 

= 100

### Question 91 :

40% are the passing marks. A student gets 250 marks yet fails by 38 marks. What is the maximum marks?

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**Difficulty : Moderate** 

### **Options :**

- 1. 720
- 2. 750
- 3. 800
- 4. 840

```
Solution :
```

The correct answer is **option 1** i.e. **720**.

Let the total marks be x

Passing marks = 0.4x

Given,

250 + 38 = 0.4x

0.4x = 288

 $x = (288 \times 10)/4$ 

x = 720

### Question 92 :

Ravi is 12 years younger than Surya. Ravi's age is 40% of the sum of his and Surya's age. What will be Surya's age 9 years hence ?

**Difficulty : Moderate** 

### **Options :**

- 1. 36
- 2. 24

Average Time : 57 Seconds



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Average Time : 47 Seconds

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- 33
- 4.45

### Solution :

The correct answer is option 4 i.e. 45

Let Surya's age be s

Ravi's age be r

s - r = 12 ---(1)

r = 0.4(r + s)

0.6r = 0.4s

```
0.6(s - 12) = 0.4s
                     (From equation 1)
```

0.6s - 7.2 = 0.4s

0.2s = 7.2

s = 36 years

9 years from now the age will be = 36 + 9 = 45

### **Question 93:**

A man's annual income has increased by Rs 5 lakhs but the tax on income that he has to pay has reduced from 12% to 10%. He now pay Rs 10,000 more income tax. What is his increased income (in Rs lakhs)?

**Difficulty : Moderate** 

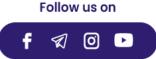
### **Options**:

- 1. 20
- 2.25
- 3. 15
- 4. 10

Solution : The correct answer is option 2 ie 25.

Starting income = x

Average Time: 73 Seconds



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New income = x + 5,00,000

Income tax at starting income = 0.12x

Income tax now = (x + 5,00,000)(0.1)

Difference = 10,000

0.1x + 5,00,000 - 0.12x = 10,000

x = 20,00,000

New salary = 25 lakhs

### **Question 94 :**

A racing car going at an average speed of 108 km/hr takes 15 minutes to complete a lap on a racing track. By how much should it increase its speed (in km/hr) to complete the lap in 12 minutes?

Difficulty : Moderate		Average Time : 62 Seconds
Options : 1. 24		
2. 21		
3. 27		
4. 30		
5. 23		
Solution : The correct answer is option 3 ie 27		
Distance of the lap = $108 \times (1/4) = 27 \text{ k}$	xm	
Time to complete the lap = $12 \text{ min} = 1/5$	5 hour	

Speed = 27/(1/5) = 135 km/hr

Increase = 135 - 108 = 27 km/hr

### **Question 95:**

Train A takes 45 minutes more than Train B to travel a distance of 450 km. Due to engine trouble speed of Train B falls by a quarter, so it takes 30 minutes more than Train A to complete the same journey. What is the speed of Train A (in



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km/hr)?

**Difficulty : Moderate** 

### **Options :**

- 1.90
- 2. 120
- 3. 100
- 4. 110

### Solution :

The correct answer is option 3 ie 100.

Let the speed of Train A be x.

Speed of Train B = y

x.t = y.[t - (3/4)] - eq1

Given,

x.t = y.[t + (1/2)] - eq2

On solving equation,

1 part = 75 minutes [time difference]

Time by A = 4.5 hrs, distance = 450km

Speed = 450/4.5 = 100 km/hr

### Question 96 :

Two cars A and B travel from one city to another city, at speed of 72 km/hr and 90 km/hr respectively. If car B takes 1 hour lesser than car A for the journey, then what is the distance (in km) between the two cities?

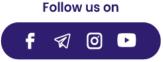
**Difficulty : Moderate** 

### Options :

- 1. 270
- 2. 360
- 3. 240



Average Time : 72 Seconds



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### 400

### Solution :

The correct answer is option 2 i.e. 360

Distance = speed × time

Time taken by B is 't' hours

72(t + 1) = 90t

72t + 72 = 90t

72 = 18t

t = 4 hrs

Distance =  $90 \times 4 = 360$  km

### Question 97:

B starts 4 minutes after A from the same point, for a place at a distance of 7 miles from the starting point. A on reaching the destination turns back and walks a mile where he meets B. If A's speed is a mile in 8 minutes then B's speed is a mile in how many minutes?

**Difficulty : Moderate** 

#### **Options** :

- 1.9
- 2.12
- 3.10
- 4.8

### Solution :

The correct answer is option 3 i.e. 10

Speed of A = 1 mile/8 minutes

= 7.5 miles/hrs

Speed of B = x miles/hrs

Total distance covered by A = 8 miles

Time taken by A = 64 minutes

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B starts 4 minutes later,

Time taken by B = 60 minutes

Distance covered = 6 miles

Speed = 60/6 = 10 minutes/mile

### Question 98 :

If the amount on a certain principal in 3 years at a 12% rate of interest compounded annually is Rs 12,000, then what will be the amount (in Rs) after the 4th year?

**Difficulty : Moderate** 

### **Options :**

- 1. 14330
- 2. 15440
- 3. 13440
- 4. 14550

### Solution :

The correct answer is Option 3 i.e. 13440.

Amount = Principal + Interest

Amount in 4th year at the rate of 12% will be

Amount = 12000 + (12/100) × 12000

Amount = (12000 + 1440)

Amount = Rs.13440

### Question 99 :

The amount (in Rs) received at 10% per annum compound interest after 3 years is Rs 1,19,790. What was the principal ?

Difficulty : Moderate

**Options** :

- 1. 90,000
- 2. 1,00,000

K' ) LIVE

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### 80,000

### 4. 75,000

### Solution :

The correct answer is option 1 ie 90,000.

 $P(1 + R/100)^3 = 119790$ 

 $P(1 + 1/10)^3 = 119790$ 

 $P(11/10)^3 = 119790$ 

 $P = (119790 \times 10 \times 10 \times 10) / (11 \times 11 \times 11)$ 

P = 90,000

### Question 100 :

If the simple interest earned on a certain sum for the 1 year is Rs 2,000 and compound interest earned in 2 years is Rs 4,160 then, what will be the rate of interest?

**Difficulty : Moderate** 

### **Options**:

### 1.8

- 2.10
- 3. 12
- 4.6

### Solution :

The correct answer is **Option 1** i.e. 8.

### Simple interest:

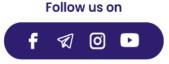
 $S.I. = (P \times R \times T)/100$ 

 $(P \times R \times T)/100 = 2000$ 

 $P \times R = 200000....(1)$ 

### **Compound interest:**

 $C.I. = P(1 + (R/100)^2) - P$ 



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 $P(1 + (R/100)^2 - 1) = 4160$  $P(1 + (R/100)^2) = 4160$ 

 $P[(200 + R)(R)]/100^2 = 4160$ 

P[(200 + R)(R)] = 41600000....(2)

Dividing both equations, we have

1/(R + 200) = 20/4160

R + 200 = 208

R = 8%

### Ssc Cgl Tier II Previous Year Question Paper **Analysis**

The analysis of Ssc Cgl Tier II Previous Year Question Paper held on 2018-02-17 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. 2 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 12
- 2. Percentage 2
- Data Interpretation 5
- 4. Time Speed And Distance 5
- 5. Interest 4
- Ratios And Proportion 10
- 7. Geometry 17
- 8. Trigonometry 7
- 9. Mensuration 9
- 10. Algebra 1

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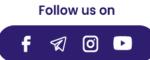
- 12. Number Series 1
- 13. Quadratic Equation 8
- 14. Partnership 5
- 15. Profit And Loss 6

# 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.

### **Daily Current Affairs**



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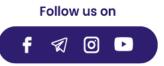
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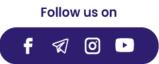
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### About Neetu Mam

Neetu Mam is primarily passionate for the English language and teaching from the last 20 years however for the Ssc Cgl Tier II Previous Year Question Paper. She has guided her team to provide the best explanation for the question.



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