Ssc Cgl Tier I Previous Year Question Paper Overview

Here, you can solve all the questions asked in Ssc Cgl Tier I Previous Year Question Paper on 2019-06-07 in the Evening 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 I exam. There are 100 questions in the exam and 60 minutes are provided for the Ssc Cgl Tier I exam. The Cutoff of the exam was 140 marks hence you should try to score at least 150 marks.

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

Question 1 :
The Almatti dam project on the Krishna river was an issue between which states?

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

Options :

1. Karnataka and Tamil Nadu

2. Andhra Pradesh and Tamil Nadu

3. Karnataka and Andhra Pradesh

4. Karnataka and Goa

Solution :
The correct answer is **option 3** i.e **Karnataka and Andhra Pradesh.**

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- The Almatti dam is situated on the Krishna River in Karnataka and it was an issue between Karnataka and Andhra Pradesh.
- The government of India constituted a common tribunal in 1969 to adjudicate the river water utilization disputes among the river basin states of Krishna and Godavari rivers.
- Presently this dam is under the operating authority of Karnataka Power Corporation Limited.

Question 2 :

Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No Improvement'. We must endeavour to increase women's access for education also employment.

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

Options :

1. No Improvement

2. access to education and employment

3. excess to education or employment

4. access in education also employment

Solution :

The correct answer is **option 2 i.e. access to education and employment.**

- "**Access**" is followed by the preposition "**To**".
- "**And**" will be the correct use of the conjunction here.
- The chosen option follows the given rules hence, it will **IMPROVE** the statement correctly.

Correct Sentence:-

We must endeavour to increase women's access to education and employment.

Question 3 :

Two chords AB and CD, of lengths 5 cm and 11 cm respectively, are parallel and are on the same side of the centre O of a circle. If the distance between the chords is 3 cm, then what is the diameter of the circle?
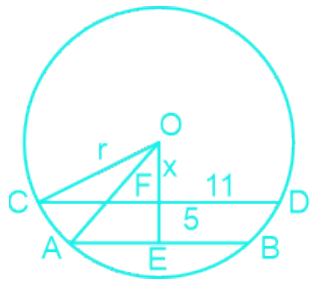
Difficulty : Moderate

Average Time : 65 Seconds

Options :

1. 146 cm

2. 142 cm

3. 37 cm

4. 38 cm

Solution :

The correct answer is **Option 1** i.e. **146 cm**

Let of be 'x' in the given figure.

As we know that the perpendicular from the centre bisects the chord.

AE = EB = 11/2 cm

CF = FD = 5/2 cm

In the triangle AOE,

Using Pythagoras theorem

$AO^2 = AE^2 + OE^2$

$r^2 = (5/2)^2 + (x + 3)^2$

In the triangle COF,

Using Pythagoras theorem

$CO^2 = OF^2 + CF^2$

$r^2 = (11/2)^2 + x^2$

$(11/2)^2 + x^2 = (5/2)^2 + (x + 3)^2$

$(11/2)^2 = (2.5)^2 + 6x + 9$

$6x = 15$

$x = 5/2$

$r^2 = (11/2)^2 + x^2$

$r^2 = 121/4 + 25/4$

$r^2 = 146/4$

$r = (146)/2$

$2r = 146$ cm

Question 4 :

The table shows the production of different types of cars (in thousands). Year 2014 2015 2016 2017 2018 Cars A 42 53 44 66 65 B 46 49 57 64 72 C 54 45 45 50 56 D 48 56 63 65 68 E 46 48 56 57 64 The average production of cars in 2018 is approximately what percent less than the total production of type D cars in 2015 and type B cars in 2017 taken together?

Difficulty : Moderate   **Average Time : 99 Seconds**

Options :

1. 44.2%

2. 43.6%

3. 45.8%

4. 42.4%

Solution :

The correct answer is **Option 3** i.e. **45.8%**

The average production of cars in 2018 = (65 + 72 + 56 + 68 + 64)/5 = 325/5 = 65

Total production of type D cars in 2015 and type B cars in 2017 taken together

56 + 64 = 120

((120 - 65)/120) × 100

(55/120) × 100

45.8%

Question 5 :

If $1/(\text{Cosec} - 1) + 1/(\text{Cosec} + 1) = 2\text{Sec}$, $0^0 \leq \theta \leq 90^0$, then the value of (Cot + Cos) is:

Difficulty : Moderate

Average Time : 43 Seconds

Options :

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

2. $(2 + \sqrt{2})/2$

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

4. $1 + \sqrt{2}$

Solution :

The correct answer is **Option 2** i.e. **$(2 + \sqrt{2})/2$**

$1/(\text{Cosec} - 1) + 1/(\text{Cosec} + 1) = 2\text{Sec}$

$(\text{Cosec} + 1 + \text{Cosec} - 1)/((\text{Cosec} - 1)(\text{Cosec} + 1)) = 2\text{Sec}$

$2\text{Cosec}/\text{Cot}^2 = 2\text{Sec}$

$\text{Cot} = \text{Cot}^2$

$\text{Cot} = 0$ or $\text{Cot} = 1$

$\theta = 90^o$ or $\theta = 45^o$

$\theta \neq 90^o$, $\theta = 45^o$

Cot + Cos

$1 + (1/\sqrt{2})$

$(2 + \sqrt{2})/2$

Question 6 :

Select the most appropriate ANTONYM of the given word. LIBERTY

Difficulty : Moderate

Average Time : 118 Seconds

Options :

1. Freedom

2. Slavery

   Reservation

4. Autonomy

Solution :

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

Let's have a look at the meaning of the given options:-

1. **Slavery**- the activity of legally owning other people who are forced to work for or obey you.
2. **Liberty**- the freedom to go where you want, do what you want, etc.
3. **Freedom**- the state of not being held prisoner or controlled by somebody else.
4. **Reservation**- a seat, table, room, etc. that you have booked.
5. **Autonomy**- the right of a person, an organization, a region, etc. to govern or control his/her/its own affairs.

As the chosen option expresses the opposite meaning of the given word it will be correct.

Question 7 :

Which of the following Acts was amended to provide a statutory basis for the implementation of the flexible inflation targeting (FIT) framework?

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

Options :

1. Reserve Bank of India (RBI) Act, 1934

2. The Industrial Finance Corporation of India Act, 1948

3. Deposit Insurance and Credit Guarantee Corporation Act, 1961

4. Banking Regulation Act, 1949

Solution :

The correct answer is **option 1** i.e **Reserve Bank of India (RBI) Act, 1934.**

- The Reserve Bank of India Act, 1934 was amended to provide a statutory basis for an FTI framework.
- The amended Act provides for the inflation target to be set by the Government, in consultation with the RBI, once every five years.

Question 8 :

In the sentence identify the segment which contains the grammatical error. Each of the girls have given an impressive dance performance.

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. an impressive
2. have given
3. dance performance
4. Each of the girls

Solution :

The correct answer is **option 2 i.e. have given**.

1. The error lies in **option 2** because of the wrong use of "**Subject-verb agreement**".
2. We need to replace "**Have**" with "**Has**" for making the statement grammatically correct.

Grammatical concept:-

- **Subjects** and **verbs** must AGREE with one another in number (**singular or plural**). Thus, if a **subject** is **singular**, its **verb** must also be **singular**; if a **subject** is **plural**, its **verb** must also be **plural**.
- "**Each of the Plural noun + singular verb**" is the correct phrase.
- The chosen option contains the **ERROR** hence, it will be the correct choice.

Correct Sentence:-

Each of the girls has given an impressive dance performance.

Question 9 :
The value of 6 - 6 ÷ 6 × 6 + (6 ÷ 6 of 6) × 6 - (3(2/3) ÷ 11/30 of 2/3) ÷ 5 is

Difficulty : Moderate

Average Time : 86 Seconds

Options :

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

Solution :

The correct answer is **Option 3** i.e. **-2**

6 - 6 ÷ 6 × 6 + (6 ÷ 6 of 6) × 6 - (3(2/3) ÷ 11/30 of 2/3) ÷ 5

6 - 6 ÷ 6 × 6 + (6/36) × 6 - (11/3) ÷ 22/90) ÷ 5

6 - 1 × 6 + (6/36) × 6 - (11/3) × 90/22) ÷ 5

6 - 6 + 1 - (11/3) × 90/22) ÷ 5

1 - (30/2) ÷ 5

1 - 3

-2

Question 10 :

$6x/(2x^2 + 5x - 2) = 1$, x > 0, then the value of $x^3 + 1/x^3$ is:

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

Options :

1. 3(17)/8

2. 5(17)/8

3. 3(17)/4

4. 5(17)/16

Solution :

The correct answer is **Option 2** i.e. **5(17)/8**

$6x/(2x^2 + 5x - 2) = 1$

$6x = 2x^2 + 5x - 2$

$2x^2 - x - 2 = 0$

x = (1 ± (1 + 16))/4

x = (1 ± (17)/4

x > 0

x = (1 + (17)/4

1/x = 4/(1 +17)

1/x = (17 - 1)/4

x + 1/x = (17)/2

$x^3 + 1/x^3 = (x + 1/x)^3 - 3(x + 1/x)$

17(17)/8 - 3((17)/2)

5(17)/8

Question 11 :

2Tan(300)/(1 - Tan2300) = ?

Difficulty : Moderate   **Average Time : 105 Seconds**

Options :

1. 3

2. 1/3

3. 1/3

4. 3

Solution :

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

$2Tan(30^0)/(1 - Tan^2 30^0)$

$(Tan30^o = 1/3)$

$(2/3)/(1 - (1/3)^2)$

(2/3)/(2/3)

3

Question 12 :

A journey of 96 km takes one hour less by a fast train (A) than by a slow train (B). If the average speed of B is 16 km/h less than that of A, then the average speed (in km/h) of A is:

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

Options :

   60

2. 54

3. 64

4. 48

Solution :

The correct answer is **Option 4** i.e. **48**

Let the average speed of train A and B be 'a' and 'b' respectively.

We have given that,

b = a - 16

The journey of 96 km takes one hour less by a fast train (A) than by a slow train (B)

96/b - 96/a = 1

1/b - 1/a = 1/96

1/(a - 16) - 1/a = 1/96

16/a(a - 16) = 1/96

a(a - 16) = 16 × 96

a^2 - 16a - 1536 = 0

(a - 48)(a + 32) = 0

a = 48 km/h

Question 13 :

The value of Sin2300 Cos2450 + 4Tan2300 + (1/2)Sin2900 + 2Cos900 is:

Difficulty : Moderate

Average Time : 58 Seconds

Options :

1. 2

2. 47/24

3. 15/8

4. 23/12

Solution :

The correct answer is **Option 2** i.e. **47/24**

$\text{Sin}^2 30^0 \, \text{Cos}^2 45^0 + 4\text{Tan}^2 30^0 + (1/2)\text{Sin}^2 90^0 + 2\text{Cos}90^0$

By putting all the given values

$(1/2)^2 \times (1/2)^2 + 4(1/3)^2 + (1/2)(1)^2 + 2 \times 0$

$1/4 \times 1/2 + 4/3 + 1/2 + 0$

$1/8 + 4/3 + 1/2$

$(3 + 32 + 12)/24$

$47/24$

Question 14 :

What is the compound interest on a sum of Rs.8,100 for 1(1/4) years at 8% per annum, if the interest is compounded 5-monthly? (Nearest to Rs.1)

Difficulty : Moderate   **Average Time : 63 Seconds**

Options :

1. Rs.837

2. Rs.873

3. Rs.824

4. Rs.842

Solution :

The correct answer is **Option 1** i.e. **Rs.837**

Application	Understanding

Let the compound interest be CI, the principal be P, the rate of interest be r and the time period be T. $CI = P(1 + r/100)^T - P$	The number of years = 1(1/4) 5/4 years $CI = P(1 + r/100)^T - P$ $CI = 8100(1 + 10/300)^3 - 8100$ 8937.5 - 8100 Rs. 837.5 or Rs.837

Question 15 :

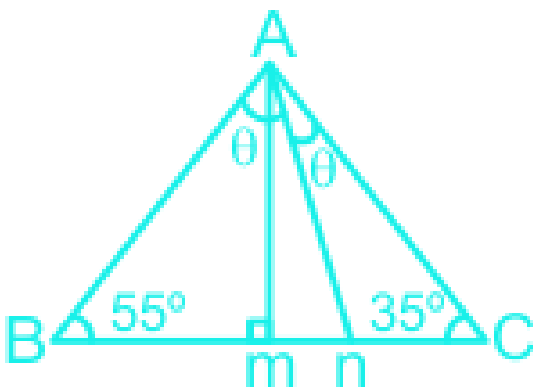In ∆ABC, AM is perpendicular to BC and AN is the bisector of A. What is the measure of MAN, if B = 55o and C = 35o?

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

Options :

1. 12°

2. 5°

3. 10°

4. 15°

Solution :

In triangle ABC, we have two triangles ABM & AMC are right-angled triangles

BAN = NAC (given)

In the triangle ABC, the sum of angles will be given as

$55^o + 35^o + A = 180^o$

$A = 90^o$

$BAN = NAC = 45^o$

In triangle ANC, the sum of angles will be given as

$45^o + 35^o + ANC = 180^o$

$ANC = 100^o$

$ANB = 80^o$

In triangle ANM, the sum of angles will be given as

$80^o + 90^0 + MAN = 180^o$

$MAN = 10^o$

Question 16 :
A person sells an article at a profit of 12% If he had purchased it for 12% less and sold it for Rs. 9 less, he would have gained 27%. What is the original cost price of the article?

Difficulty : Moderate

Average Time : 132 Seconds

Options :
1. Rs. 3750
2. Rs. 4500
3. Rs. 4250
4. Rs. 4000

Solution :
The correct answer is **Option 1** i.e. **Rs. 3750**

Let the cost price of the article be 100x

Selling price = 112x (using multiplying factor)

If he had purchased it for 12% less and sold it for Rs 9 less,

Cost price = 100x × 0.88

88x

Selling price - Cost price = Profit

112x - 9 - 88x = 88x × 27/100

24x - 9 = 2376x/100

x(24 - 23.76) = 9

x = 9/0.24

x = 37.5

Original cost price = 100x = 3750

Question 17 :

In the sentence identify the segment which contains the grammatical error. If so many catches had not being dropped, we would have won the match.

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

Options :

1. had not being dropped

2. won the match

3. If so many catches

4. we would have

Solution :

The correct answer is **option 1 i.e. had not being dropped.**

1. The error lies in **option 1** because of the wrong use of "**Verb form**".
2. We need to replace "**Being**" with "**Been**" for making the statement grammatically correct.

Grammatical concept:-

- "**Has/Have/Has + past participle**" is the correct verb phrase.
- The chosen option contains the **ERROR** hence, it will be the correct choice.

Correct Sentence:-

If so many catches <u>had not been dropped,</u> we would have won the match.

Question 18 :

Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No Improvement'. Let us not neglect important aspects of life although pursue momentary pleasures.

Difficulty : Moderate   Average Time : 74 Seconds

Options :

1. by pursued moment pleasures

2. No Improvement

3. while pursuing momentary pleasures

4. through pursued in momentary pleasures

Solution :

The correct answer is **option 3 i.e. while pursuing momentary pleasures.**

- We use both **when** and **while** as subordinating conjunctions to introduce adverbial clauses of time. They mean during the time that and indicate that something is or was happening when something else occurred.
- The given statement shows the concurrence of the action hence, "**While**" will be the correct choice here.
- The chosen option follows the given rules hence, it will **IMPROVE** the statement correctly.

<u>Correct Sentence:-</u>

Let us not neglect important aspects of life <u>while pursuing momentary pleasures.</u>

Question 19 :

A cylindrical road roller made of metal is one meter long. Its inner radius is 27 cm and the thickness of the metal sheet rolled into it is 9 cm. What is the weight of the roller, if 1 cm of the metal weighs 8 g?(in kg)

Difficulty : Moderate   Average Time : 74 Seconds

Options :

1. 453.6

2. 449

3. 441

4. 442.4

Solution :

The correct answer is**Option 1** i.e. **453.6**

Height of the cylinder(h) = 1 m or 100 cm

The inner radius of the cylinder(r_1) = 27 cm

Thickness = 9 cm

The outer radius of the cylinder(r_2) = 27 + 9 = 36 cm

Volume of a hollow cylinder = $(r_2^2 - r_1^2)h$

$(36^2 - 27^2)100$

(1296 - 729)100

56700

Weight = 56700 × 8

453600 g or 453.6 kg

Question 20 :
The table shows the production of different types of cars (in thousands). Year 2014 2015 2016 2017 2018 Cars A 42 53 44 66 65 B 46 49 57 64 72 C 54 45 45 50 56 D 48 56 63 65 68 E 46 48 56 57 64 What is the ratio of the total production of type A cars in 2017 and type C cars in 2014 taken together to the total production of type B cars in 2014, type C cars in 2017, and type E cars in 2018 taken together?

Difficulty : Moderate   **Average Time : 88 Seconds**

Options :

1. 3 : 4

2. 2 : 3

3. 12 : 11

4. 5 : 6

Solution :

The correct answer is **Option 1** i.e. **3 : 4**

The total production of type A cars in 2017 = 66

The total production of type C cars in 2014 = 54

66 + 54

120

The total production of type B cars in 2014 = 46

The total production of type C cars in 2017 = 50

The total production of type E cars in 2018 = 64

46 + 50 + 64

160

120/160

3/4 or 3 : 4

Question 21 :
If the 10-digit number 67127y76x2 is divisible by 88, then the value of (7x - 2y) is:

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

Options :

1. 10

2. 7

3. 5

4. 3

Solution :
The correct answer is **Option 2** i.e. **7**

The number 67127y76x2 is given as divisible by 88

88 = 8 × 11

The number 67127y76x2 satisfies the divisibility test of 8 and 11.

Divisibility test of 8:

We need to check the last 3 digits

6x2/8 = 0(rem)

x = 3

Divisibility test of 11:

(2 + 6 + y + 2 + 7) - (3 + 7 + 7 + 1 + 6)

17 + y - 24

y - 7 should be divisible by 11

y = 7

7x - 2y

7(3) - 2(7)

21 - 14 = 7

Question 22 :

Surbhi spends 75% of her income. If her income increases by 20% and savings decrease by 1%, then the percentage increase in her expenditure is: (in percentages)

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

Options :

1. 22

2. 2.7

3. 2.2

4. 27

Solution :

The correct answer is **Option 4** i.e. **27**

Let the income of Surbhi be 'I'

Expenditure of Surbhi = 0.75I

Savings of Surbhi = 0.25I

New income = 1.2I

Savings decreases by 1% = 0.25I × 0.99

0.99I/4

Expenditure = Income - saving

1.2I - 0.99I/4

3.81l/4

0.9525

l((0.9525 - 0.75)/0.75) × 100

(0.2025/0.75) × 100

27%

Question 23 :

The ratio of the efficiencies of A, B, and C is 3 : 5 : 1. Working together, they can complete a piece of work in 5 days. A and B work together work for 3 days. The remaining work will be completed by C alone in how many days?

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

Options :

1. 24 days

2. 18 days

3. 15 days

4. 21 days

Solution :

The correct answer is **Option 4** i.e. **21 days**

Let the efficiencies of A, B, & C be respectively 3, 5 & 1 units

Work done by 3 of them together of day 1 = 3 + 5 + 1 = 9 units

 Total work = 9 × 5

 45 units

The amount of work completed when A and B work for 3 days = 3(3 + 5)

 3 × 8 = 24 units

Remaining work = 45 - 24 = 21 units

The number of days taken by C = 21/1

 21 days

Question 24 :

In a circle with centre O, PQR is a tangent at the point Q on it. AB is a chord in the circle parallel to the tangent such that

BQR = 70o. What is the measure of AQB?

Difficulty : Moderate

Average Time : 60 Seconds

Options :
1. 60°
2. 35°
3. 55°
4. 40°

Solution :
The correct answer is **Option 4** i.e. **40°**
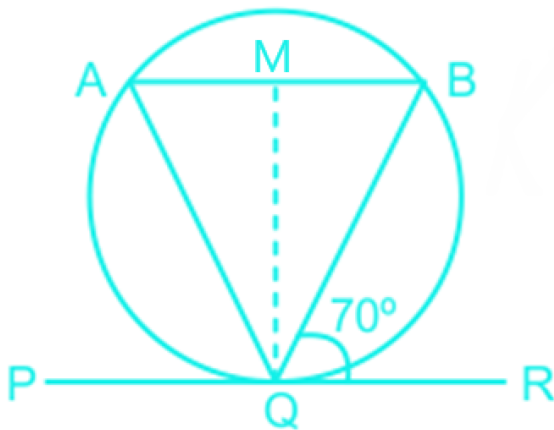
In the given figure, the chord AB gets bisected by the perpendicular

The middle of AB be M(say)

AM = MB

QMB = QMA

LQ = LQ

âˆ†QMA âˆ†QMB

AQL = BQL = 20°(90° - 70°)

2 × 20°

40°

Question 25 :

The table shows the production of different types of cars (in thousands). Year 2014 2015 2016 2017 2018 Cars A 42 53 44 66 65 B 46 49 57 64 72 C 54 45 45 50 56 D 48 56 63 65 68 E 46 48 56 57 64 If the data related to the production of type D cars is represented by a pie chart. then the central angle of the sector representing the production of cars in 2017 will be:

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

Options :

1. 81.6^o

2. 50°

3. 75.6^o

4. 78°

Solution :

The correct answer is **Option 4** i.e. **78⁰**

The total production of car D across all years = 48 + 56 + 63 + 65 + 68 = 300

Type D in 2017 = 65 thousands

$(65/300) \times 360^o$

$(13/60) \times 360^o$

78°

Question 26 :

Four different positive numbers are written in ascending order. One-third of the average of all the four numbers is 19 less than the greatest of these numbers. If the average of the first three numbers is 12, the greatest number among the given numbers is:

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

Options :

1. 21

2. 24

3. 22

25

Solution :

The correct answer is **Option 2** i.e. **24**

Let the four numbers be 'a', 'b', 'c' and 'd' where d > c > b > a.

(a + b + c)/3 = 12

a + b + c = 36

(1/3)((a + b + c + d)/4) = d - 19

a + b + c + d = 12d - 228

36 + d = 12d - 228

11d = 264

d = 24

Question 27 :
If Tan/(1 - Cot) + Cot/(1 - Tan) = 1 + k, then k = ?

Difficulty : Moderate   **Average Time : 46 Seconds**

Options :

1. Cot + Sec

2. Tan + Sec

3. TanCosec

4. SecCosec

Solution :

The correct answer is **Option 4** i.e. **SecCosec**

Tan/(1 - Cot) + Cot/(1 - Tan) = 1 + k

(Sin/Cos)(1 - Cos/Sin) + (Cos/Sin)/(1 - Sin/Cos)

(Sin/Cos)(Sin - Cos/Sin) - (Cos/Sin)/((Sin - Cos)/Cos)

Sin^2/(Cos(Sin - Cos)) - Cos^2/(Sin(Sin - Cos))

(Sin^3 - Cos^3)/(SinCos(Sin - Cos))

$((Sin - Cos)(Sin^2 + Cos^2 + SinCos)/(SinCos(Sin - Cos))$

$(1 + SinCos)/SinCos$

$1 + SecCosec$

$k = SecCosec$

Question 28 :

The table shows the production of different types of cars (in thousands). Year 2014 2015 2016 2017 2018 Cars A 42 53 44 66 65 B 46 49 57 64 72 C 54 45 45 50 56 D 48 56 63 65 68 E 46 48 56 57 64 The total production of type A cars in 2016 and type E cars in 2014 taken together is what percent of the total production of type C cars from 2014 to 2018?

Difficulty : Moderate   **Average Time : 131 Seconds**

Options :

1. 32

2. 40

3. 35

4. 36

Solution :

The correct answer is **Option 4** i.e. **36**

The total production of type A cars in 2016 = 44

The total production of type E cars in 2014 = 46

44 + 46 = 90

Total production of type C cars from 2014 to 2018 = 54 + 45 + 45 + 50 + 56

250

(90/250) × 100

36%

Question 29 :

If $(8x3 + 27y3) \div (2x + 3y) = (Ax2 + Bxy + Cy2)$, then the value of (5A + 4B + 3C) is:

Difficulty : Moderate   **Average Time : 43 Seconds**

Options :

26

2. 27

3. 24

4. 23

Solution :

The correct answer is **Option 4** i.e. **23**

$(8x^3 + 27y^3) \div (2x + 3y)$

By using the identity, $a^3 + b^3 = (a + b)(a^2 + b^2 + ab)$

$((2x + 3y)(4x^2 + 9y^2 - 6xy))/(2x + 3y)$

$(4x^2 + 9y^2 - 6xy)$

$(Ax^2 + Bxy + Cy^2)$

A = 4, B = -6 & C = 9

$(5A + 4B + 3C) = 5(4) + 4(-6) + 3(9)$

20 - 24 + 27

23

Question 30 :

The base and altitude of an isosceles triangle are 10 cm and 12 cm respectively. Then the length of each equal side is

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. 13 cm

2. 7.5 cm

3. 10 cm

4. 8.5 cm

Solution :

The correct answer is **Option 1** i.e. **13 cm**
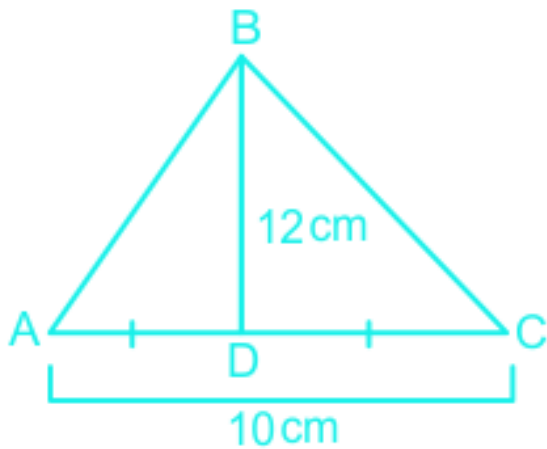
In the isosceles triangle, the base gets bisected by the perpendicular altitude.

AD = CD = 5 cm

In the triangle ABD

$AB^2 = AD^2 + BD^2$

(144 + 25)

169 = 13 cm

AB = BC = 13 cm

Question 31 :

By how much above the cost price should an article be marked up for sale so that after allowing two successive discounts of 20% and 6.25% on it, a net gain of 20% is made on the cost?

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

Options :
  1. 50%

  2. 60%

  3. 66(2/3)%

  4. 46(1/4)%

Solution :

The correct answer is **Option 2** i.e. **60%**

Let the cost price be Rs. 100 & the marked price be Rs.'x'

Selling price = 120

Equivalent discount = 20 + 6.25 - (20 × 6.25)/100

25%

Marked Price - Selling Price = Discount

x - x/4 = 120

3x/4 = 120

x = 160

Markup % = 160 - 100

60%

Question 32 :
A sum of Rs.x is divided among A, B, and C such that the ratio of shares of A and B is 7 : 12 and that of B and C is 8: 5. If the difference in the shares of A and C is Rs.214, then the value of x is:

Difficulty : Moderate   Average Time : 53 Seconds

Options :
1. Rs.11,880
2. Rs.11,556
3. Rs.11,770
4. Rs.11,342

Solution :
The correct answer is **Option 4** i.e. **Rs.11,342**

The ratio of the share of A and B = 7 : 12

The ratio of the share of B and C = 8 : 5

A : B : C = 14 : 24 : 155

Let the shares be 14 units, 24 units, and 15 units

The difference in shares of A and C = (15 - 14) units

1 Unit = Rs.214

Sum = 14 + 15 + 24

53 units

53 × 214

Rs. 11342

Comprehension :
In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank. There was still a light on in Mo's room. He often stayed (1)_____ reading late into the night. Meggie had (2)_____ her love of books from him. When she (3)_____ refuge with him from a bad dream, nothing could lull (4)_____ back to sleep better than Mo's calm breathing (5)_____ her and the sound of the pages turning.

Question 33 :
Select the most appropriate option to fill in the blank number (1).

Difficulty : Moderate   **Average Time : 74 Seconds**

Options :

1. out

2. up

3. for

4. away

Solution :
The correct answer is **option 2 i.e. up**.

- "**Stay up**" which means "**to go to bed later than usua**l" fits the given blank appropriately.

Hence, the chosen option will be correct.

Comprehension :
In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank. There was still a light on in Mo's room. He often stayed (1)_____ reading late into the night. Meggie had (2)_____ her love of books from him. When she (3)_____ refuge with him from a bad dream, nothing could lull (4)_____ back to sleep better than Mo's calm breathing (5)_____ her and the sound of the pages turning.

Question 34 :
Select the most appropriate option to fill in the blank number (2).

Difficulty : Moderate

Average Time : 64 Seconds

Options :

1. inherited
2. gained
3. extracted
4. procured

Solution :

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

Let's have a look at the meaning of the given options:-

1. **inherited**- to receive property, money, etc. from somebody who has died.
2. **gained**- to obtain or win something, especially something that you need or want.
3. **extracted**- to take something out, especially with difficulty.
4. **procured**- to obtain something, especially with difficulty.

"inherited" which means "**to receive property, money, etc. from somebody who has died**" fits the context appropriately.

Hence, the chosen option will be correct.

Comprehension :
In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank. There was still a light on in Mo's room. He often stayed (1)_____ reading late into the night. Meggie had (2)_____ her love of books from him. When she (3)_____ refuge with him from a bad dream, nothing could lull (4)_____ back to sleep better than Mo's calm breathing (5)_____ her and the sound of the pages turning.

Question 35 :
Select the most appropriate option to fill in the blank number (3).

Difficulty : Moderate

Average Time : 85 Seconds

Options :

1. has taken
2. takes
3. took

will take

Solution :

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

- The statement is talking about the past event hence, the use of past form of the verb will be appropriate here.

Hence, the chosen option will be correct.

Comprehension :

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank. There was still a light on in Mo's room. He often stayed (1)_____ reading late into the night. Meggie had (2)_____ her love of books from him. When she (3)_____ refuge with him from a bad dream, nothing could lull (4)_____ back to sleep better than Mo's calm breathing (5)_____ her and the sound of the pages turning.

Question 36 :

Select the most appropriate option to fill in the blank number (4).

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

Options :

1. it
2. her
3. them
4. his

Solution :

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

- A pronoun is used according to the gender of the noun.
- The statement is talking about a girl hence, "**Her**" will be the correct possessive determiner here.

Hence, the chosen option will be correct.

Comprehension :

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank. There was still a light on in Mo's room. He often stayed (1)_____ reading late into the night. Meggie had (2)_____ her love of books from him. When she (3)_____ refuge with him from a bad dream, nothing could lull (4)_____ back to sleep better than Mo's calm breathing (5)_____ her and the sound of the pages turning.

Question 37 :

Select the most appropriate option to fill in the blank number (5).

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

Options :

1. behind

2. beside

3. against

4. around

Solution :

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

- "**Beside**" which means **"at the side of, or next to somebody/something"** fits the given statement correctly.

Hence, the chosen option will be correct.

Question 38 :

Select the word which means the same as the group of words given. To give up the throne.

Difficulty : Moderate   **Average Time : 43 Seconds**

Options :

1. usurp

2. abdicate

3. consign

4. bequeath

Solution :

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

Let's have a look at the meaning of the given options:-

1. **usurp**- to take somebody's position and/or power without having the right to do this.
2. **abdicate**- to give up being King or Queen.
3. **consign**- to put or send somebody/something somewhere, especially in order to get rid of him/her/it.
4. **bequeath**- to arrange for something to be given to somebody after you have died.

As the chosen option expresses the meaning of the given group of words it will be the correct answer.

Question 39 :
Select the word which means the same as the group of words given. A trade that is prohibited by law

Difficulty : Moderate   Average Time : 65 Seconds

Options :
1. illicit
2. inapt
3. illusive
4. incredible

Solution :
The correct answer is **option 1 i.e. illicit**.

Let's have a look at the meaning of the given options:-
1. **illicit**- (used about an activity or substance) not allowed by law or by the rules of society.
2. **inapt**- not suitable or appropriate in the circumstances.
3. **illusive**- deceptive; illusory.
4. **incredible**- impossible or very difficult to believe.

As the chosen option expresses the meaning of the given group of words it will be the correct answer.

Question 40 :
In March 2018, Indian actress _____ was named as the new ambassador of the international award-winning non-profit organisation, Educate Girls.

Difficulty : Moderate   Average Time : 59 Seconds

Options :
1. Aishwarya Rai
2. Deepika Padukone
3. Priyanka Chopra
4. Katrina Kaif

Solution :
The correct answer is **option 4** i.e **Katrina Kaif.**

- Katrina Kaif has joined the international award-winning non-profit organisation, Educate Girls as their Ambassador on 19 March, 19.
- Educate Girls' is a non-profit organization in India, founded by Safeena Husain in 2007.
- The NGO works for the education of poor and socially backward girls.

Question 41 :

During whose reign did the Chinese traveller Hiuen Tsang visit India?

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

Options :

1. Chandragupta I

2. Harshavardhana

3. Samudragupta

4. Vikramaditya

Solution :

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

- Hiuen Tsang was a Chinese traveller who visited India in Ancient Times between AD 627-643.
- He visited India during the reign of Harshavardhana who came to admire him for his deep devotion towards Buddhism.

Question 42 :

The base financial year for the calculation of the all India Index of Industrial Production (IIP) is:

Difficulty : Moderate   **Average Time : 43 Seconds**

Options :

1. 2005-2006

2. 2004-2005

3. 2011-2012

2010-2011

Solution :

The correct answer is **option 3** i.e **2011-2012.**

- IIP is a key economic indicator of the manufacturing sector of the economy.
- There is a lag of six weeks in the publication of the IIP index data after the reference month ends. IIP index is currently calculated using 2011-2012 as the base year.

Question 43 :

What does the Lorenz Curve indicate?

Difficulty : Moderate   Average Time : 47 Seconds

Options :

1. Relationship between the price of a certain commodity and its demand

2. Rate of employment

3. Taxable income elasticity

4. Income distribution

Solution :

The correct answer is **option 4** i.e **Income distribution.**

- A Lorenz curve is a graphical representation of the distribution of income or wealth within a population.
- Lorenz curves graph percentiles of the population against cumulative income or wealth of people at or below that percentile.

Question 44 :

Which Suri King was defeated by Humayun to regain his kingdom?

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. Mahmood Suri
2. Sher Shah Suri
3. Bahalol Suri
4. Sikandar Suri

Solution :

The correct answer is **option 4** i.e. **Sikandar Suri.**

- Sikandar Suri was defeated by Humayun in the Battle of Sirhind in 1555 which led to the end of the Suri dynasty and the re-establishment of the Mughal Dynasty in Delhi.
- Humayun was defeated by Sher Shah in 1540, and the Suri dynasty ruled over Delhi from 1540-55.

Question 45 :

_____ built the world-famous Harmandar Sahib, popularly known as the Golden Temple in Amritsar.

Difficulty : Moderate

Average Time : 48 Seconds

Options :

1. Guru Arjan Dev
2. Guru Siri Har Rai
3. Guru Angad Dev
4. Guru Ram Das

Solution :

The correct answer is **option 1** i.e **Guru Arjan Dev.**

- The Golden Temple which is popularly known as Harmandir Sahib or Darbar Sahib among its devotees is the holiest shrine of Sikhism.
- Harmandir Sahib, situated in Amritsar, Punjab, was built by the fifth guru of Sikhs, Guru Arjan Dev Ji in the 16th century.

Question 46 :

'Shifting cultivation' is also known as _____in north-east India.

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. Chena

2. Ladang

3. Jhum

4. Logan

Solution :

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

- 'Shifting cultivation' is also known as Jhum in northeast India.
- Shifting cultivation is an agricultural practice, wherein, plots of land are temporarily cultivated and then the cultivator abandons it and moves to another plot, leaving it to revert to its natural vegetation.
- Yams, sugarcane, vegetables, etc. are some of the crops grown by this method.

Question 47 :

Who decides on the issue related to the disqualification of a Member of Lok Sabha under the Tenth Schedule?

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. President
2. Speaker
3. Prime Minister
4. Vice President

Solution :

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

- According to paragraph 2(1)(a) of the Tenth Schedule of the Constitution, an elected member of the house shall be disqualified from being a member if they win the election as a candidate of one party and then join another.
- The power for this disqualification is vested in the Speaker, who is usually a nominee of the ruling party.

Question 48 :

In March 2019, the Government of _____ launched the 'Lose to Win' programme to assist overweight employees shed extra kilos and adopt a healthy lifestyle.

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. Australia
2. UK
3. UAE
4. US

Solution :

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

- The United Arab Emirates on March,19 launched the 'Lose to Win' programme to assist overweight employees shed extra kilos and adopt a healthy lifestyle.

- The programme has been launched by the Ministry of Health and Prevention with an aim to encourages those struggling with weight issues.

Question 49 :

_____is famous for the outstanding specimens of Buddhist art and architecture, belonging to the period between the 3rd century B.C. and the 12th century A.D.

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. D. A Satna

2. Vidisha

3. Dewas

4. Sanchi

Solution :

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

- Sanchi is famous for an outstanding specimen of Buddhist art and architecture, belonging to the period between the 3rd century B.C. and the 12th century A.D.
- It is famous for its Stupa, situated in the Raisen district of Madhya Pradesh.
- The Great Stupa was commissioned by Ashoka in the 3rd century BCE.
- It is one of the oldest stones structures of India.

Question 50 :

The Qutub Minar was named after the Sufi saint _____.

Difficulty : Moderate   **Average Time : 55 Seconds**

Options :

1. Alauddin Sabir Kaliyari

2. Qutub-ud-Din Aibak

3. Syed Waheed Ashraf

4. Khwaja Qutbuddin Bakhtiyar Kaki

Solution :

The correct answer is **option 4** i.e **Khwaja Qutbuddin Bakhtiyar Kaki.**

- The Qutub Minar was named after the Sufi saint Khwaja Qutbuddin Bakhtiyar Kaki.
- The foundation stone for it was laid by Qutub-ud-Din Aibak, while Iltutumish got it completed.
- The monument is a UNESCO World Heritage Site in Delhi.

Question 51 :

_____ was the first person to isolate methane gas. He discovered that methane mixed with air could be exploded using an electric spark.

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

Options :

1. Louis Pasteur

2. William Thomson

3. William Crookes

4. Alessandro Volta

Solution :

The correct answer is **option 4** i.e **Alessandro Volta.**

- Alessandro Volta was the first person to isolate methane gas. He discovered that methane mixed with air could be exploded using an electric spark.

Question 52 :

_____ is an important road link between Srinagar on one side and Kargil and Leh on the other side.

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. Zoji La
2. Muling La
3. Qara Tag
4. La D Shipki La

Solution :

The correct answer is **option 1** i.e. **Zoji La**.

- Zoji La is an important road link between Srinagar on one side and Kargil and Leh on the other side.
- It separates Kashmir Valley and Dras Valley. After Fotu La, it is the second-highest pass on the Srinagar-Leh National Highway.

Question 53 :

Who invented the atomic battery in 1912?

Difficulty : Moderate

Average Time : 44 Seconds

Options :

1. Benjamin Franklin
2. Henry Moseley
3. Alessandro Volta
4. Louis Pasteur

Solution :

The correct answer is **option 2** i.e **Henry Moseley.**

- In 1912, Moseley developed the first atomic battery, or beta cell, when he insulated beta particles emitted from radium to generate 150,000 volts of long-lasting energy.

Question 54 :

Asian Games, also known as Asiad, is a multi-sport event held every _____ year among athletes from all over Asia.

Difficulty : Moderate   **Average Time : 46 Seconds**

Options :

1. six
2. five
3. four
4. three

Solution :

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

- The Asian Games, also known as Asiad, is a continental multi-sport event held every four years among athletes from all over Asia.

Question 55 :

_____ won gold in the Men'sfreestyle wrestling 65 kg category at the Dan Kolov 2019 wrestling event.

Difficulty : Moderate   **Average Time : 44 Seconds**

Options :

1. Bajrang Punia
2. Yogeshwar Dutt
3. Sandeep Tomar
4. Sushil Kumar

Solution :

The correct answer is **option 1** i.e **Bajrang Punia.**

> - Bajrang Punia won gold in men's freestyle wrestling 65kg category at the Dan Kolov 2019 Wrestling event.

Question 56 :

_____ codified the first two laws of thermodynamics and deduced that the absolute zero of temperature is 273.15°C. He was honoured for this with the naming of the Kelvin temperature scale.

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

Options :

1. Robert Hooke

2. William Crookes

3. William Thomson

4. Luis Alvarez

Solution :

The correct answer is **option 3** i.e **William Thomson.**

> - William Thomson codified the first two laws of thermodynamics and deduced that the absolute zero of temperature is 273.15°C.
> - He was honoured for this with the naming of the Kelvin temperature scale.

Question 57 :

The theory that dinosaurs were driven to extinction by the aftermath of a large asteroid impact on Earth was given by _____.

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

Options :

1. Wilhelm Réntgen

2. Luis Alvarez

Henry Moseley

4. William Crookes

Solution :

The correct answer is **option 2** i.e. **Luis Alvarez.**

- The theory that dinosaurs were driven to extinction by the aftermath of a large asteroid impact on Earth was given by Luis Alvarez. This theory is known as the Alvarez Hypothesis.
- Luis Walter Alvarez was an American experimental physicist, inventor, and professor who was awarded the Nobel Prize in Physics in 1968.

Question 58 :

Who was the fifth of the ten Sikh gurus?

Difficulty : Moderate   **Average Time : 47 Seconds**

Options :

1. Guru Ramdas

2. Guru Angad

3. Guru Arjan Dev

4. Guru Hargobind

Solution :

The correct answer is **Option 3** i.e. **Guru Arjan Dev.**

- Guru Arjan Dev is the fifth Guru of the Sikhs.
- He became the first martyr of the Sikh faith and on 16 June every year, the Martyrdom of Guru Arjan Dev is commemorated.
- This day has been marked to honour him and has been commemorated since 1606.

Question 59 :

The deficiency of which nutrient causes night blindness?

Difficulty : Moderate   **Average Time : 46 Seconds**

Options :

1. Vitamin A

2. Vitamin C

Proteins

4. Vitamin K

Solution :

The correct answer is **option 1** i.e **Vitamin A.**

- Night blindness (in which it is difficult or impossible to see in relatively low light) is one of the clinical signs of vitamin A deficiency and is common during pregnancy in developing countries.
- Retinol is the main circulating form of vitamin A in blood and plasma.

Question 60 :

Flying Officer _____ of the Indian Air Force (IAF) created history by becoming the first Indian woman to fly her first solo fighter flight in a Russian made MiG-21 fighter.

Difficulty : Moderate   Average Time : 55 Seconds

Options :

1. Mohana Singh

2. Avani Chaturvedi

3. Bhawana Kanth

4. Anjali Gupta

Solution :

The correct answer is **option 2** i.e **Avani Chaturvedi.**

- In 2018, flying officer Avani Chaturvedi scripted history by becoming the first Indian woman to fly a fighter aircraft solo. She flew a MiG-21 bison in her first solo flight.

Question 61 :

Brazilian physicist and astronomer _____ was awarded the 2019 Templeton Prize, worth $1.4 million, for his work

blending science and spirituality.

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. Charles Messier

2. Marcelo Gleiser

3. Nicolaus Copernicus

4. Edwin Hubble

Solution :

The correct answer is **option 2** i.e **Marcelo Gleiser.**

- Brazilian physicist and astronomer Marcelo Gleiser have been awarded the 2019 Templeton Prize, worth $1.4 million, for his work blending science and spirituality.

Question 62 :

In March 2019, a science teacher from rural Kenya named _____ won the prestigious Global Teacher Prize 2019, worth $1 million, which honours the world's best teacher.

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. Andria Zafirakou

2. Peter Tabichi

3. Nancie Atwell

4. Hanan Al Hroub

Solution :

The correct answer is **option 2** i.e **Peter Tabichi.**

- Peter Mokaya Tabichi, OFM (born 1982) is a Kenyan science teacher and Franciscan friar at Keriko Mixed Day Secondary School in Pwani, Nakuru County. He is the winner of the 2019 Global Teacher Prize.

Question 63 :

Select the option that is related to the fifth term in the same way as the second term is related to the first term and the fourth term is related to the third term. 6472: 25:: 7343: 41:: 6582:?

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

Options :

1. 14
2. 16
3. 18
4. 13

Solution :

The correct answer is **option 2** i.e **16.**

Understanding	Application
The logic used here is: 6472: 25 6 - 4 = 2 7 - 2 = 5 7343: 41 7 - 3 = 4 4 - 3 = 1	Similarly, **6582:?** **6 - 5 = 1** **8 - 2 = 6** Hence, **option 2** is the correct answer.

Question 64 :

Arrange the following words in a logical & meaningful order. 1) Doctor 2) Recovery 3) Hospital 4) Home 5) Sickness 6)

Medicine store

Difficulty : Moderate

Average Time : 55 Seconds

Options :

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

2. 5, 3, 6, 1, 3, 2

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

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

Solution :

The correct answer is **option 4** i.e **5, 3, 1, 6, 2, 4.**

Understanding
In this question, you need to arrange the words in a logical & meaningful order.
So the arrangement is;
1. Sickness
2. Hospital
3. Doctor
4. Medicine store
5. Recovery
6. Home

Question 65 :

Select the figure in which the given figure is embedded.

Difficulty : Moderate

Average Time : 48 Seconds

Options :

1.

2.

3.

4.

Solution :

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

Understanding
The given figure is embedded in option 4, as shown below:

Question 66 :

'Judgement' is related to 'Deliver' in the same way as 'Rule' is related to _____.

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

Options :

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Solution :

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

Understanding	Application
Judgment is something meant to deliver.	Similarly, **The rule is meant for implementation.** Hence, **option 4** is the odd one out.

Question 67 :

Select the word-pair in which the two words are related in the same way as are the two words in the following word pair.
Mnemonic: Memory

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. Sedative: Sleep

2. Drama: Acting

3. Audition: Music

4. Audience: Speech

Solution :

The correct answer is **option 1** i.e **Sedative: Sleep.**

Understanding	Application

A mnemonic device, or memory device, is any learning technique that aids information retention or retrieval in human memory.	Similarly, **A sedative is a drug taken for its calming or sleep-inducing effect.** Hence, **option 1** is the odd one out.

Question 68 :

Three of the following four numbers are alike in a certain way and one is different. Pick the number that is different from the rest.

Difficulty : Moderate   **Average Time : 60 Seconds**

Options :

1. 2197
2. 343
3. 731
4. 1331

Solution :

The correct answer is **option 3** i.e **731.**

Understanding	Application
2197, 343, 1331 are cubes of 13, 7 and 11 respectively.	Similarly, **731 is not a perfect cube.** **Hence, 731 is the odd one out.** Hence, **option 3** is the odd one out.

Question 69 :

Select the number pair in which the two numbers are related in the same way as are the two numbers of the following number-pair. 27: 8

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. 19: 5
2. 12 : 3
3. 33: 9
4. 39: 14

Solution :

The correct answer is **option 2** i.e **12 : 3.**

Understanding	Application
The logic used here is: 27: 8 8 × 3 = 24 24 + 3 = 27	Similarly, **12 : 3** **3 × 3 = 9** **9 + 3 = 12** Hence, **option 2** is the odd one out.

Question 70 :

Select the set in which the numbers are related in the same way as are the numbers of the following set. (11, 16, 20)

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. (21, 26, 32)
2. (15, 20, 24)
3. (9, 14, 19)
4. (17, 23, 26)

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Solution :

The correct answer is **option 2** i.e **(15, 20, 24).**

Understanding	Application
The logic used here is: (11, 16, 20) 11 + 5 = 16 16 + 4 = 20	Similarly, **(15, 20, 24)** **15 + 5 = 20** **20 + 4 = 24** Hence, **option 2** is the odd one out.

Question 71 :

Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.

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

Options :

1. LPQ

2. DHL

3. HLP

4. PTX

Solution :

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

Understanding	Application

The logic used here is: Option 2: DHL D + 4 = H H + 4 = L Option 3: HLP H + 4 = L L + 4 = P Option 4: PTX P + 4 = T T + 4 = X	Similarly, **Option 1: LPQ** **L + 4 = P** **P + 4 = Q** Hence, **option 1** is the odd one out.

Question 72 :

Select the option that is related to the third letter cluster in the same way as the second letter cluster is related to the first letter cluster. FLQV: JISU:: DINR:?

Difficulty : Moderate

Average Time : 69 Seconds

Options :

1. HFPQ

2. HMPS

3. HGLQ

4. FGQN

Solution :

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

Understanding	Application

The logic used here is: FLQV: JISU F + 4 = J L - 3 = I Q + 2 = S V - 1 = U	Similarly, **DINR:?** **D + 4 = H** **I - 3 = F** **N + 2 = P** **R - 1 = Q** Hence, **option 1** is the odd one out.

Question 73 :

Three of the following four-word pairs are alike in a certain way and one is different. Pick the odd word out.

Difficulty : Moderate

Average Time : 62 Seconds

Options :

1. Tamil Nadu: South

2. Punjab: North

3. Assam: North-East

4. Kerala: North-West

Solution :

The correct answer is **option 4** i.e **Kerala: North-West.**

Understanding	Application
Tamil Nadu is in the South. Punjab is in the North. Assam is in the North East.	Similarly, **Kerela is not in the northwest.** **Hence, Kerela is the odd one out.** Hence, **option 4** is the odd one out.

Question 74 :

Three of the following four words are alike in a certain way and one is different. Pick the odd word out.

Difficulty : Moderate   **Average Time : 60 Seconds**

Options :

1. Afghanistan

2. Nepal

3. Indonesia

4. Ireland

Solution :

The correct answer is **Option 4** i.e. **Ireland**

Afghanistan, Nepal, and Indonesia are Asian countries.

Whereas,

Ireland is a European Country.

Hence, **Ireland** is the odd one out.

Question 75 :

Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.

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

Options :

1. FNMG

2. SKLV

3. PXWQ

4. BKJC

Solution :

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

Understanding	Application

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The logic used here is: Option 1: FNMG F + 1 = G N - 1 = M Option 3: PXWQ P + 1 = Q X - 1 = W Option 4: BKJC B + 1 = C K - 1 = J	Similarly, **Option 2: SKLV** **S + 1 = T** **K - 1 = L** Hence, **option 2** is the odd one out.

Question 76 :
How many triangles are there in the following figure?

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

Options :

1. 29
2. 27
3. 25
4. 31

Solution :
The correct answer is **option 1** i.e **29.**

Understanding
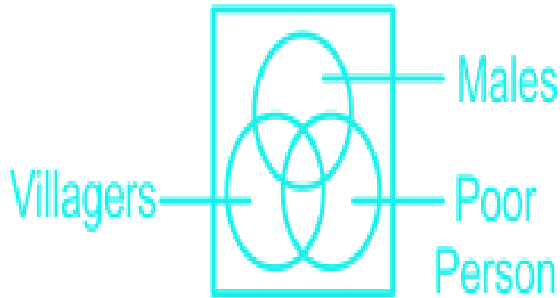
29 triangles: AEI, ABE, BCE, ACE, EJI, EJK, EIK, CEK, ACK, AIK, AIC, CKI, CGD, DGH, CFG, FGK, GKL, GHL, DGL, CGK, CDK, DKL, DEL, DEK, CEL, IDK, ACL, CDL, CKL.

Question 77 :

Two different positions of the same dice are shown. Which number will be at the top if 3 is at the bottom?

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

Options :

1. 5

2. 1

3. 4

4. 2

Solution :

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

Understanding
If 3 is at the bottom then;
1 is opposite to 2
5 is opposite to 3
4 is opposite to 6
Hence, **option 1** is the correct answer.

Question 78 :

A cycle was sold for â,¹4,140 with a profit of 15%. At what price could it have been sold to earn a profit of 25%?

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. â,¹4,200

2. â,¹4,500

3. â,¹4,850

4. â,¹4,350

Solution :

The correct answer is **option 2** i.e **â,¹4,500.**

Understanding
S.P of a cycle = 4140
Profit % = 15 %
S.P. = 115 ÷ 100 × CP
4140 = 115 ÷ 100 × CP
(4140 × 100) ÷ 115 = CP
3600 = CP
New P % = 25 %
New SP = 125 ÷ 100 × CP
SP = 125 ÷ 100 × 3600
SP = 4500
Hence, **option 2** is the correct answer.

Question 79 :

Which number will replace the question mark (?) in the following series? 7, 11, 18, 29, ?, 76

Difficulty : Moderate

Average Time : 54 Seconds

Options :

47

2. 53

3. 61

4. 44

Solution :

The correct answer is **option 1** i.e **47.**

Understanding
Given series: 7, 11, 18, 29, ?, 76
The logic used here is:
7 + 11 = 18
11 + 18 = 29
18 + 29 = 47
29 + 47 = 76
The missing term in the series is **47**.
Hence, option 1 is the correct answer.

Question 80 :

Two statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements. Statements: I. Some quadrilaterals are squares. II. All squares are rhombuses. Conclusions: I. No quadrilateral is a rhombus. II. All rhombuses are squares. III. Some quadrilaterals are rhombuses.

Difficulty : Moderate   **Average Time : 63 Seconds**

Options :

1. Only conclusion I follows

2. Only conclusion II follows

3. None of the conclusions follows

4. Only conclusion III follows

Solution :

The correct answer is **option 4** i.e **Only conclusion III follows.**

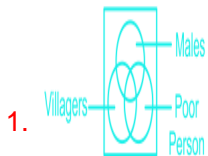| Understanding |
|---|
| The least possible Venn diagram is shown below: |
| **Conclusions:**
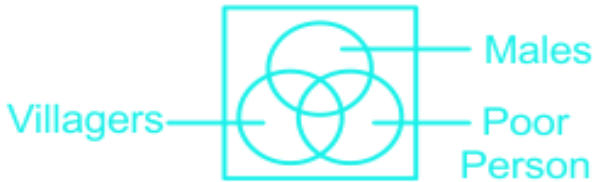
I. No quadrilateral is a rhombus: **False** (Some quadrilateral are square and All square are rhombus, so definitely some quadrilateral are rhombus is true).

II. All rhombuses are squares: **False** (This is possible but not definite).

III. Some quadrilaterals are rhombuses: **True** (Some quadrilateral are square and All square are rhombus, so definitely some quadrilateral are rhombus is true).

Hence, **Only conclusion III follows.** |

Question 81 :

A square paper is folded and cut as shown below. How will it appear when unfolded?

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

Options :

1.

2.

3.

4.

Solution :

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

Understanding
After unfolding, the paper will appear as follows: When the paper is unfolded same pattern of cutting will appear on the bottom and top side of the paper.
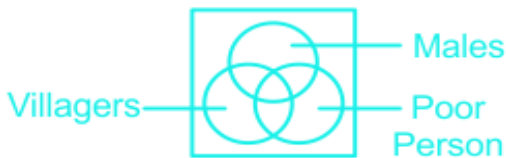
Question 82 :

If the word ANGEL is coded as BOHFM, then what will be the third alphabet in the code for the word SAVAGE?

Difficulty : Moderate

Average Time : 77 Seconds

Options :

   X

2. B

3. W

4. U

Solution :

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

Understanding	Application
The logic used here is: ANGEL is coded as BOHFM A + 1 = B N + 1 = O G + 1 = H E + 1 = F L + 1 = M	Similarly, **Code for the word SAVAGE:** **S + 1 = T** **A + 1 = B** **V + 1 = W** **A + 1 = B** **G + 1 = H** **E + 1 = F** **3rd alphabet in the code for the word SAVAGE is W.** Hence, **option 3** is the correct answer.

Question 83 :

Select the combination of letters that when sequentially placed in the gaps of the given letter series will complete the series. cd_ab_cd_abb_dda_b

Difficulty : Moderate

Average Time : 73 Seconds

Options :

1. dbdcb

bbcdb

3. dbcbc

4. cbdab

Solution :

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

| Understanding	Application
The sequence is – **cddabb** cd_ab_cd_abb_dda_b We need to fill it with the help of options and then check the pattern.	The complete series is as follows: cd**d**ab**b** / cd**d** abb / **c**dda**b**b Hence, **dbdcb** will be in blank spaces.

Question 84 :

Select the mirror image of the given figure when the mirror is placed to the right of the figure.

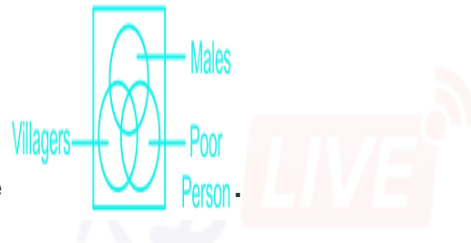**Difficulty : Moderate**   **Average Time : 63 Seconds**

Options :

1.

2.

3.

4.
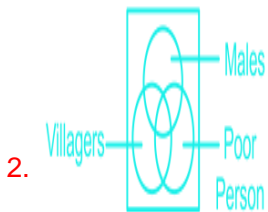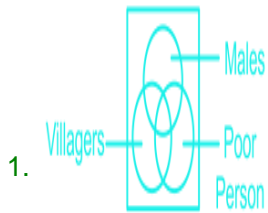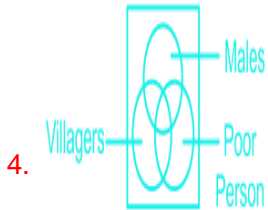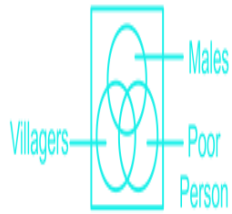
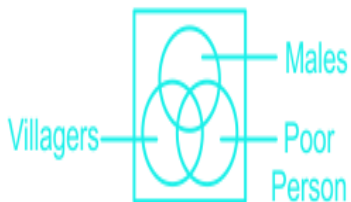**Solution :**

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

Understanding
The mirror image of the question figure is shown below: Since the mirror is placed right to the question figure, the right-hand side of the original image will be now the left-hand side of the mirror image.

Question 85 :
Select the figure that will come next in the following figure series.

Difficulty : Moderate   **Average Time : 78 Seconds**

Options :

1.

2.

3.

4.

Solution :

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

Understanding
E is changing its position in the clockwise direction.
Alternatively, the positions of v and o are changing.
X remains the same in each subsequent figure.
The sequence of figures:

Question 86 :

If + denotes ÷ ; ÷ denotes ×; × denotes ÷; ÷ denotes + then what will be the value of 60 × 10 ÷ 40 + 6 - 5?

Difficulty : Moderate

Average Time : 76 Seconds

Options :

1. 16
2. 200
3. 3
4. 144

Solution :

The correct answer is **option 1** i.e **16.**

Understanding
Given equation: 60 × 10 ÷ 40 + 6 - 5
If + denotes ; denotes ×; × denotes ÷; ÷ denotes +
After replacement the equation becomes:
= 60 ÷ 10 + 40 - 6 × 5
= 6 + 40 - 6 × 5
= 6 + 40 - 30
= 46 - 30
= 16
Hence, option 1 is the correct answer.

Question 87 :

Select the Venn diagram that best illustrates the relationship between the following classes. Villagers, Poor Persons, Males

Difficulty : Moderate

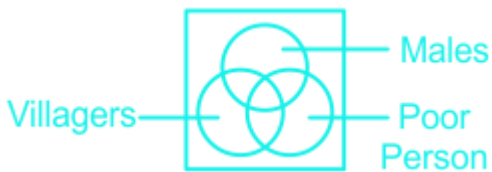**Average Time : 55 Seconds**

Options :

1.

2.

3.

4.

Solution :

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

Understanding
The possible Venn diagram is: Hence, the diagram given below shows the best relationship between them:

Question 88 :
Select the most appropriate ANTONYM of the given word. TRANSIENT

Difficulty : Moderate

Average Time : 71 Seconds

Options :

1. Permanent
2. Temporal
3. Celestial
4. Stationary

Solution :

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

Let's have a look at the meaning of the given options:-

1. **Permanent**- lasting for a long time or forever; that will not change.
2. **Transient**- lasting or continuing for a short period of time.
3. **Temporal**- connected with the real physical, material world and not to spiritual matters.
4. **Celestial**- of the sky or of heaven.
5. **Stationary**- not moving.

As the chosen option expresses the opposite meaning of the given word it will be correct.

Question 89 :
Select the most appropriate SYNONYM of the given word. FURY

Difficulty : Moderate

Average Time : 60 Seconds

Options :

1. Fright
2. Sorrow
3. Cruelty
4. Anger

Solution :

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

Let's have a look at the meaning of the given options:-

1. **Anger**- the strong feeling that you have when something has happened or somebody has done something that you do not like.

Fury- very great anger.
3. **Fright**- a sudden feeling of fear or shock.
4. **Sorrow**- a feeling of great sadness because something bad has happened.
5. **Cruelty**- cruel behaviour.

As the chosen option expresses the best meaning of the given word it will be correct.

Question 90 :

Select the most appropriate SYNONYM of the given word. RETICENT

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

Options :

1. Extrovert

2. Garrulous

3. Confident

4. Silent

Solution :

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

Let's have a look at the meaning of the given options:-

1. **Silent**- where there is no noise; making no noise; very quiet.
2. **Reticent**- not wanting to tell people about things.
3. **Extrovert**- a person who is confident and full of life and who prefers being with other people to being alone.
4. **Garrulous**- talking a lot, mostly about unimportant things.
5. **Confident**- feeling or showing that you are sure about your own abilities, opinions, etc.

As the chosen option expresses the best meaning of the given word it will be correct.

Question 91 :

Select the CORRECTLY spelt word.

Difficulty : Moderate   **Average Time : 63 Seconds**

Options :

1. Concious

2. Contemptible

Complascent

4. Corigible

Solution :

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

Let's have a look at the meaning of the given options:-

1. **Contemptible**- not deserving any respect at all.
2. **Complacent**- feeling too satisfied with yourself or with a situation, so that you think that there is no need to worry.
3. **Corrigible**- capable of being corrected, rectified, or reformed.
4. **Conscious**- able to see, hear, feel, etc. things; awake.

As the chosen option is correctly spelt it will be the correct answer.

Question 92 :
Select the CORRECTLY spelt word.

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

Options :

1. Apearance

2. Arrogence

3. Attendence

4. Abundance

Solution :

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

Let's have a look at the meaning of the given options:-

1. **Appearance**- the way that somebody/something looks or seems.
2. **Arrogance**- an attitude of superiority manifested in an overbearing manner or in presumptuous claims or assumptions.
3. **Attendance**- being present somewhere.
4. **Abundance**- a very large quantity of something.

As the chosen option is correctly spelt it will be the correct answer.

Question 93 :
Select the most appropriate meaning of the given idiom. Bolt from the blue.

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. A windfall

2. An ominous warning

3. An unexpected disaster

4. A thunderstorm

Solution :

The correct answer is **option 3 i.e. An unexpected disaster.**

The meaning of the given idiom is:-

Bolt from the blue- An unexpected disaster.

As the meaning of the given idiom is the same as the chosen option it will be correct.

Question 94 :
Select the most appropriate meaning of the given idiom. Kicked up a row

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. Waited in a queue

2. Kicked the guard

3. Cried with sorrow

4. Created a fuss

Solution :

The correct answer is **option 4 i.e. Created a fuss.**

The meaning of the given idiom is:-

Kicked up a row- Created a fuss.

As the meaning of the given idiom is the same as the chosen option it will be correct.

Question 95 :
Given below are four jumbled sentences. Select the option that gives their correct order. A. What can we do to avoid anger and provocation? B. Anger and tension are prevalent due to conflicts arising out of these differences. C. Society is full of

people who think and act differently. D. We need to develop in ourselves the capacity for conversion to turn negative experiences into positive thinking.

Difficulty : Moderate   **Average Time : 60 Seconds**

Options :

1. ABDC
2. CBAD
3. ACBD
4. CADB

Solution :

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

- **Statement C** is independent and defines the theme of the paragraph hence, it will be the opening statement.
- **Statement B** shows the result of acting differently hence, **B** will come after **C**.
- Statement **A** and **D** are the question and answer respectively hence, they will come together.
- Now we have the final arrangement i.e. **CBAD**.

The chosen option is the same as the final arrangement hence, it will be correct.

Some common rules that help while solving the Para Jumbles:-

1. Read the paragraph **carefully** and try **to comprehend the paragraph's idea or theme** and **eliminate the irrelevant options**.
2. Try to identify the opening (**Independent statement**) and closing statement (**Concluding statement**).
3. Try to **identify** the **mandatory pairs**. Two sentences can be connected through various connectors.
4. If a statement starts with **Pronoun,** find **the noun** for which the **pronoun** is used, both the statements containing **noun** and **pronoun** will form a pair respectively.

Question 96 :

Given below are four jumbled sentences. Select the option that gives their correct order. A. Only the fittest creatures can survive while competing for food. B. Why do some species survive and others become extinct? C. His answer was that there is a ceaseless struggle for life among all creatures. D. This was the question that Darwin asked himself.

Difficulty : Moderate   **Average Time : 108 Seconds**

Options :

1. BCDA

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    ADCB

3. BDCA

4. ABDC

Solution :

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

- **Statement D** talks about a question that is asked in **statement B** hence, **D** will come after **B**.
- **Statement C** shows the answer to the question hence, **C** will after **D**.
- Finally, **A** will come at the end of the arrangement.
- Now we have the final arrangement i.e. **BDCA**.

The chosen option is the same as the final arrangement hence, it will be correct.

Some common rules that help while solving the Para Jumbles:-

1. Read the paragraph **carefully** and try **to comprehend the paragraph's idea or theme** and **eliminate the irrelevant options**.
2. Try to identify the opening (**Independent statement**) and closing statement (**Concluding statement**).
3. Try to **identify** the **mandatory pairs**. Two sentences can be connected through various connectors.
4. If a statement starts with **Pronoun,** find **the noun** for which the **pronoun** is used, both the statements containing **noun** and **pronoun** will form a pair respectively.

Question 97 :

Fill in the blank with the most appropriate word. The committee members were in _____ over the budget for the function.

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

Options :

1. dissent

2. deference

3. difference

4. descent

Solution :

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

Let's have a look at the meaning of the given options:-

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dissent- disagreement with official or generally agreed ideas or opinions.
2. **deference**- polite behaviour that you show towards somebody/something, usually because you respect him/her.
3. **difference**- the way that people or things are not the same or the way that somebody/something has changed.
4. **descent**- a movement down to a lower place.

"**Dissent**" which means "**disagreement with official or generally agreed ideas or opinions**" fits in the context appropriately.

Correct Sentence:-

The committee members were in dissent over the budget for the function.

Question 98 :
Fill in the blank with the most appropriate word. The old man wished to donate his _____ wealth for the upliftment of the downtrodden.

Difficulty : Moderate   Average Time : 73 Seconds

Options :
1. immense
2. elusive
3. intense
4. eminent

Solution :
The correct answer is **option 1 i.e. immense**.

Let's have a look at the meaning of the given options:-

1. **immense**- very big or great.
2. **elusive**- not easy to catch, find or remember.
3. **intense**- very great, strong or serious.
4. **eminent**- (used about a person) famous and important.

"**Immense**" which means "**very big or great**" fits in the context appropriately.

Correct Sentence:-

The old man wished to donate his immense wealth for the upliftment of the downtrodden.

Question 99 :
Select the correct active form of the given sentence. The hunchback was being laughed at by everyone.

Difficulty : Moderate

Average Time : 65 Seconds

Options :

1. Everyone laugh sat the hunchback.

2. Everyone was laughing at the hunchback.

3. Everyone is laughing at the hunchback.

4. Everyone laughed at the hunchback.

Solution :

The correct answer is **option 2 i.e. Everyone was laughing at the hunchback.**

Passive voice- Subject + was/were + being + past participle + by + object.

Active voice- Object + was/were + v4 + subject + other words.

As the chosen option follows this structure it will be the correct answer.

Question 100 :
Select the correct passive form of the given sentence. Some people believe that discipline means blind submission to authority.

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. It has been believed by some people that discipline means blind submission to authority.

2. It was believed by some people that discipline meant blind submission to authority.

3. It is believed by some people that discipline means blind submission to authority.

4. It is belief by some people that discipline means blind submission to authority.

Solution :

The correct answer is **option 3 i.e. It is believed by some people that discipline means blind submission to authority.**

Active voice- Subject + believe/believes + that + clause.

Passive voice- It is believed + that + clause.

As the chosen option follows this structure it will be the correct answer.

Ssc Cgl Tier I Previous Year Question PaperAnalysis

The analysis of Ssc Cgl Tier I Previous Year Question Paper held on 2019-06-07 in the Evening exam is as follows:
1. 100 questions were moderate.
2. The safe score is 140 marks.
3. 25 questions were asked from General Awareness, 25 questions were asked from English Language, 25 questions were asked from Quantitative Aptitude and 25 questions were asked from Logical Reasoning
4. 20 questions should have been skipped if you were short of time.

Ssc Cgl Tier I Previous Year Question Paper Topic Wise Weightage

General Awareness

1. History - 4
2. Polity - 1
3. Economics - 3
4. Science - 4
5. Geography - 3
6. GK Misc - 2
7. Current Affairs - 8

English Language

1. Fillers - 25

Quantitative Aptitude

1. Simplification - 1
2. Average - 1
3. Data Interpretation - 3
4. Time And Work - 1
5. Time Speed And Distance - 1
6. Ratios And Proportion - 1
7. Geometry - 4
8. Mensuration - 1
9. Algebra - 3

Number System - 1

11. Profit And Loss - 3

Logical Reasoning

1. Coding Decoding - 1
2. Analogy - 8
3. Classification - 3
4. Missing Characters - 1
5. Syllogism - 1
6. Venn Diagrams - 1
7. Dictionary Based - 1
8. Figure Based - 2
9. Paper-cutting, Folding, Punching - 1
10. Mirrors And Water Reflection - 1
11. Configuration, Fitting Pieces, Odd Pieces - 1
12. Series - 1
13. Mathematical Reasoning - 2
14. Cubes And Dice - 1

Ssc Cgl Tier I Previous Year Question Paper Tips and Tricks

1. Try to solve Ssc Cgl Tier I Previous Year Question Paper without taking any help from the solutions.
2. Ssc Cgl Tier I Previous Year Question Paper require proper usage of concept so firstly read the question thoroughly

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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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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 I Previous Year Question Paper. She has guided her team to provide the best explanation for the question.