

# 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 2019-06-06 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 :

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. CDAF : XWZU :: DEFC : ?

Difficulty : Moderate

Average Time : 46 Seconds

### Options :

1. WVXU
2. WVUX
3. VWXU
4. XWYV

### Solution :

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

Concept	Understanding	Application

<p>The alphabets from A to Z takes numerical position value from 1 to 26.</p> <p>Reverse pair: two alphabets form reverse pair if the sum of their numerical position values is 27.</p>	<p>Given that</p> <p>CDAF : XWZU</p> <p>Here numerical position value:</p> <p>C = 3, D = 4, A = 1, F = 6</p> <p>X = 24, W = 23, Z = 26, U = 21</p> <p>Here, CX, DW, AZ and FU are reverse pairs.</p>	<p>We need to find the reverse pair for DEFC:</p> <p>Here numerical position value:</p> <p>D = 4, E = 5, F = 6, C = 3</p> <p>Hence, DW, EV, FU and CX will form reverse pairs.</p> <p>Hence, WVUX is the correct choice.</p>
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**Question 2 :**

Select the number pair in which the two numbers are related in the same way as the two numbers of the pair given below.  
35 : 6

Difficulty : Moderate

Average Time : 75 Seconds

**Options :**

1. 85 : 9
2. 120 : 11
3. 26 : 5
4. 64 : 8

**Solution :**

Concept	Understanding	Application
Pattern: $(x^2 - 1) : x$	Given pair: $35 : 6$ is the form of $(6^2 - 1) : 6$	Similarly: Option 2: $(11^2 - 1) : 11 = 120 : 11$

### Question 3 :

Select the term that will come in the place of '?'. 7, 11, 19, 31, ?, 67

Difficulty : Moderate

Average Time : 112 Seconds

### Options :

1. 47
2. 43
3. 51
4. 45

### Solution :

The correct answer is option 1 i.e. 47

Understanding	Application
'Addition of new numbers in each term'  Multiples of 4 are added in the terms.	$7 + 4 = 11$
	$11 + 8 = 19$
	$19 + 12 = 31$
	$31 + 16 = 47$
	$47 + 20 = 67$

### Question 4 :

Choose the set of numbers that is similar to the following set. (6, 9, 18)

**Difficulty : Moderate****Average Time : 45 Seconds****Options :**

1. (18, 27, 56)
2. (8, 14, 24)
3. (14, 21, 42)
4. (10, 15, 35)

**Solution :**

Understanding	Application
Pattern is (2x, 3x, 6x) Given set: (6, 9, 18) is the form of (2x, 3x, 6x) where $x = 3$	Similarly: Option 3: (14, 21, 42) can be written as (2x, 3x, 6x) [here $x = 7$ ]

**Question 5 :**

Two statements are followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they do not conform to real-world knowledge, decide which of the conclusion(s) logically follows from the statements.

Statements: All ponds are pools. Some wells are ponds. Conclusions: I. Some ponds are not wells. II. Some wells are pools. III. All pools are wells.

**Difficulty : Moderate****Average Time : 116 Seconds****Options :**

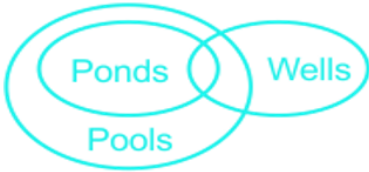
1. Only conclusion III follows
2. Only conclusion II follows
3. Only conclusion I follows
4. None of the conclusions follow

**Solution :**

The correct answer is **Option 2, i.e. Only conclusion II follows.**

## Understanding

The least possible venn diagram is:



### Conclusions:

I. Some ponds are not wells **False** (This is not possible, as Some wells are ponds is given).

II. Some wells are pools **True** (As, All ponds are part of pools, and some ponds are wells, so the part of wells which is ponds is also pools).

III. All pools are wells **False** (This is possible but not definite).

Hence, **Only conclusion II follows.**

### Question 6 :

Select the figure in which the given figure is embedded. (Rotation is not allowed)

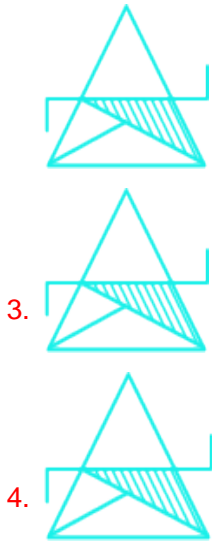
Difficulty : Moderate

Average Time : 72 Seconds

Options :



2.



**Solution :**

The correct answer is **option 1**.

Understanding

The question figure is embedded in option figure 1.



**Question 7 :**

How many triangles are there in the following figure?

**Difficulty : Moderate**

**Average Time : 59 Seconds**

**Options :**

- 1. 36
- 2. 28
- 3. 32
- 4. 24

**Solution :**

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

**Understanding**



32 triangles: AEB, BEC, CEF, FEI, IEH, HEG, GED, AED, AEC, CEI, IEG, GEA, ACG, ACI, CIG, IGA, JEK, KEL, LEN, NEQ, QEP, PEO, OEM, MEJ, JEL, LEQ, QEO, OEJ, JOQ, JLQ, LQO, OJL

**Question 8 :**

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series. 17, 27, 45, 71, ?, 147

**Difficulty : Moderate**

**Average Time : 52 Seconds**

**Options :**

- 1. 169
- 2. 148
- 3. 105
- 4. 163

**Solution :**

The correct answer is **Option 3** i.e. **105**

**17, 27, 45, 71, ?, 147**

$17 + 10 = 27$

$27 + 18 = 45; (10 + 8) = 18$

$45 + 26 = 71; (18 + 8) = 26$

**$71 + 34 = 105; (26 + 8) = 34$**

$105 + 42 = 147; (34 + 8) = 42$



Hence, the correct answer is "105".

**Question 9 :**

Two rotated positions of a dice are given below. Which number will be at the top if the number 1 is on the bottom of the dice?

Difficulty : Moderate


Average Time : 41 Seconds

**Options :**

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

**Solution :**

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

Understanding	Application
 <p>In this type of question, we pick the common side and go in a clockwise direction in both positions.</p> <p>1st position: 6 <b>1</b> 4</p> <p>2nd position: 6 <b>3</b> 2</p>	<p>We can see that the side opposite 1 is <b>3</b>.</p>

**Question 10 :**

The \_\_\_\_\_ was a group of seven Members of Parliament from the United Kingdom, constituted to suggest constitutional reforms for British India.

Difficulty : Moderate

Average Time : 58 Seconds

**Options :**





1. Sargent Commission
2. Fraser Commission
3. Hunter Commission
4. Simon Commission

**Solution :**

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

Simon Commission	It was a group of seven White members of the Parliament of the United Kingdom, which was constituted to suggest constitutional reforms in British India.
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What is Simon's commission?

- Simon Commission was a group of seven White members of the Parliament of the United Kingdom, which was constituted to suggest constitutional reforms in British India.
- It was constituted in 1927 and it reached India in 1928. It was criticized by national leaders and welcomed with black flags.
- **The main critics of this commission were that it had no Indian Member. Indian masses protested on their arrival with slogans of ' Simon go back'.**
- The Indian Statutory Commission, commonly referred to as the Simon Commission after its chairman Sir John Allsebrook Simon was sent to India in 1928 (February - March, and October 1928 - April 1929) to study potential constitutional reform.

**Question 11 :**

The Pradhan Mantri Shram Yogi Mandhan Yojana was launched by \_\_\_\_\_.

Difficulty : Moderate

Average Time : 79 Seconds

### Options :

1. Arun Jaitley
2. Narendra Modi
3. Ram Nath Kovind
4. Smriti Zubin Irani

### Solution :

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

- Pradhan MantriShram Yogi MandhanYojna was launched by Narendra Modi in Budget 2019.
- Pradhan MantriShram Yogi Mandhan is a social welfare scheme launched by the Ministry of Labour and Employment (India) of the Government of India in February 2019 for poor laborers in the unorganised sector from minimum 18 years of age to maximum 40 years. It provides a pension of Rs. 3000 Per month.

### Question 12 :

In a code language if VERY is written as UDQX, then in the same language how will you write the word URGENT?

Difficulty : Moderate

Average Time : 52 Seconds

### Options :

1. TQFDMS
2. QFDTMS
3. MSQTFD
4. TMSQFD

### Solution :

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

Understanding	Application
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Each alphabet is coded as the previous alphabet.	
Given that:	Similarly
VERY is written as UDQX.	Code for URGENT will be TQFDMS
$V - 1 = U$ , $E - 1 = D$ , $R - 1 = Q$ and $Y - 1 = X$	

**Comprehension :**

Direction: 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. Canada is three times the size of India (1)\_\_\_\_\_ its population is only about 26 million. The average (2)\_\_\_\_\_ of population is less than three persons per square kilometer (3)\_\_\_\_\_ Canada. The distribution of population is highly (4)\_\_\_\_\_. Nearly 80 per cent of the people (5)\_\_\_\_\_ in a narrow belt less than 300 kilometer wide along the southern border. The rest of the country has a very sparse population due to excessive cold.

**Question 13 :**

Select the most appropriate option for blank No. (3).

**Difficulty : Moderate****Average Time : 77 Seconds****Options :**

1. into
2. on
3. in
4. at

**Solution :**

Concept	Application
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The preposition 'in' means 'at a point within an area or a space'.

We use in to talk about where something is in relation to a larger area around it.

Ex: She's in the garden.

We use into to talk about the movement of something, usually with a verb that expresses movement (e.g. go, come). It shows where something is or was going.

Ex: Helen came into the room.

**Hence, 'in' is the correct answer.**

**Question 14 :**

The value of is:

Difficulty : Moderate

Average Time : 59 Seconds

Options :

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

**Solution :**

Correct answer is **option 4** i.e. 1

Concept	Understanding	Application
$1/\sin = \text{Cosec}$  $\text{Cot} = \text{Cos}/\text{Sin}$  $1 - \text{Cos}^2 = \text{Sin}^2$	Use the identities:	$\frac{1}{\sin \theta} - \frac{\cos^2 \theta \sin \theta}{\sin^2 \theta (\sin + 1)}$ $\Rightarrow \frac{[\sin \theta + 1] - \cos^2 \theta}{\sin \theta (\sin + 1)}$ $\Rightarrow 1$

**Question 15 :**

If  $a + 1/a = 3$ , then  $(a^4 + 1/a^4)$  is equal to:

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

1. 77
2. 81
3. 47
4. 27

**Solution :**Correct answer is **Option 3** i.e. **47**

$$a^2 + 1/a^2 = (a + 1/a)^2 - 2$$

$$a + 1/a = 3$$

$$a^2 + 1/a^2 = 3^2 - 2 = 7$$

$$a^4 + 1/a^4 = 7^2 - 2 = 47$$

**Comprehension :**

Direction : The table shows the production of different types of cars (in thousands) City/Year 2013 2014 2015 2016 2017 A 48 47 50 61 64 B 47 55 58 54 66 C 52 58 62 66 72 D 60 53 56 65 66 E 43 47 54 64 62

**Question 16 :**

The total production of type B cars in 2015 and type C cars in 2013 is what percent more that the total production of type E cars in 2013 and 2014? (Correct to one decimal place)

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

1. 22.2
2. 24.8
3. 23.4
4. 25.6

**Solution :**correct answer is **option 1** i.e. **22.2**

Concept	Understanding	Application
Percentage formula	Extract data from the given table	Total production of type B cars in 2015 and type C cars in 2013 = $58+52 = 110$
		Total production of type E cars in 2013 and 2014 = $43 + 47 = 90$
		Required percentage = $(110 - 90)/90 = 22.2\%$

### Comprehension :

Direction : The table shows the production of different types of cars (in thousands) City/Year 2013 2014 2015 2016 2017  
 A 48 47 50 61 64 B 47 55 58 54 66 C 52 58 62 66 72 D 60 53 56 65 66 E 43 47 54 64 62

### Question 17 :

The total production of type B cars during 2013 to 2016 is approximately what percent less than total production of cars in 2017?

Difficulty : Moderate

Average Time : 135 Seconds

### Options :

1. 35%
2. 38%
3. 40%
4. 32%

### Solution :

correct answer is **option 1** i.e. **35%**

Concept	Understanding	Application	Fair calculation
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Sum and Percentage formula	Extract data from the given table	Total production of type B cars 2013 to 2016= 214 And Total production of cars in 2017= 330	$47+55+58+54 = 214$ $64+66+72+66+62 = 330$
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**Question 18 :**

Who was the first woman judge of the Delhi High Court?

Difficulty : Moderate

Average Time : 53 Seconds

**Options :**

1. Anna Chandi
2. Sujata Manohar
3. Ruma Pal
4. Leila Seth

**Solution :**The correct answer is **option 4** i.e. **Leila Seth**.

First woman judge of the Delhi High Court was Leila Seth.

- Leila Seth was the first woman judge of the Delhi High Court and she became the first woman to become Chief Justice of a state High Court.
- She was also a member of the Justice Verma Committee which was constituted for the infamous case of Delhi gang rape that happened in 2016.
- She was a member of the 15th Law Commission of India from 1997 to 2000.

**Fathima Beevi** was the first female judge to be a part of the Supreme Court of India.**Anna Chandy** was India's first female judge and the first woman in the country to become a High court judge.**Question 19 :**



If a 10-digit number  $2094x843y2$  is divisible by 88, then the value of  $(5x - 7y)$  for the largest possible value of  $x$ , is:

Difficulty : Moderate

Average Time : 69 Seconds

Options :

1. 3

2. 5

3. 2

4. 6

Solution :

The correct answer is **option 2** i.e. **5**.

For the number to be divisible by 88, the number should be divisible by 11 and 8 both

A number is divisible by 8 if the number formed by the last three digits is divisible by 8

$3y2$  should be divisible by 8

So,  $y = 1$  or  $5$  or  $9$

A number is divisible by 11 if the difference between the sum of its digits at odd places and the sum of its digits at even places is divisible by 11

If divisible by 11:

$$(2 + 9 + x + 4 + y) - (0 + 4 + 8 + 3 + 2) = 0 \text{ or multiple of } 11$$

$$x + y - 2 = 0 \text{ or multiple of } 11$$

Now, for  $y = 1$

$$x + 1 - 2 = 0 \text{ or multiple of } 11$$

$$x - 1 = 0 = x = 1$$

for  $y = 5$

$$x + 5 - 2 = 0 \text{ or multiple of } 11$$

$$x + 3 = 11 = x = 8$$

for  $y = 9$

$$x + 9 - 2 = 0 \text{ or multiple of } 11$$



$$x + 7 = 11 = x = 4$$

Since the largest possible value of  $x$  is 8 which is at  $y = 5$

So,

$$(5x - 7y) = 5 \times 8 - 7 \times 5 = 40 - 35 = 5$$

**Question 20 :**

A train travelling at 44 km/h crosses a man walking with a speed of 8 km/h, in the same direction, in 15 seconds. If the train crosses a woman coming from the opposite direction in 10 seconds, then what is the speed (in km/h) of the woman?

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

1. 8.5
2. 9
3. 10.5
4. 10

**Solution :**

Correct answer is **option 4** i.e. **10**

Concept	Understanding	Application
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<p>Relative speed (in same direction) = Speed1 - Speed2</p>	<p>Speed of train = 44 km/h Speed of man = 8 km/h  Train crosses man walking insame direction in 10 seconds</p>	<p>Relative speed of train with respect to man =44-8= 36 km/hr= 36x5/18 = 10m/s  Hence, Distance travelled in 15 seconds (Length of train) = 15 x10 = 150 meter</p>
<p>Relative speed (in opposite direction) = Speed1 + Speed2</p>	<p>Let speed of woman = X km/hr  Train crosses a woman coming from the opposite direction in 10 seconds</p>	<p>Relative speed of train with respect to woman =44+ X  150 = (44+ X) x5/18x 10  X = 10</p>

**Question 21 :**

A person borrowed a certain sum at 10% p.a. for three years, interest being compounded annually. At the end of two years, he repaid a sum of Rs. 6,634 and at the end of the third year, he cleared off the debt by paying Rs.13,200. What was the sum borrowed by him?

Difficulty : Moderate

Average Time : 191 Seconds

**Options :**

1. Rs. 16,400
2. Rs. 16,500
3. Rs. 15,400
4. Rs. 15,600

**Solution :**

correct answer is **option 3** i.e. **Rs. 15,400**

Concept	Understanding	Application	Fair calculation
$A = P[1 + r/100]^T$ $CI = A - P$	$r = 10\%$ $T = 3 \text{ years}$ Let Sum = P	Now the amount remaining after paying $6634 = (13200/110) \times 100 = 12000$  Actual amount after 2 years= $12000+6634=18634$	$13200/1.1 = 12000$
		$A = P[1 + r/100]^T$ $18634 = P[1 + 10/100]^2$ $P = 15400$	$18634 \times 100/121 = 18634/1.21 = 15400$

**Question 22 :**

In a circle with center O and radius 10 cm, PQ and RS are two parallel chords of lengths x cm and 12 cm, respectively, and both the chords are on the opposite side of O. If the distance between PQ and RS is 14 cm, the value of x is:

**Difficulty : Moderate**

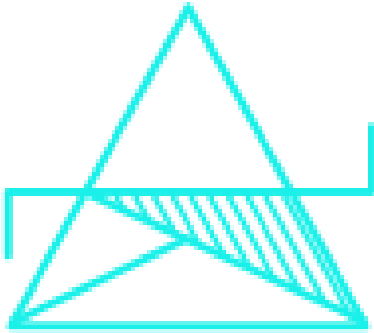
**Average Time : 212 Seconds**

**Options :**

1. 20
2. 18
3. 15
4. 16

**Solution :**

Correct answer is **option 4** i.e. **16**



Concept	Understanding	Application	Fair calculation
Pythagoras theorem	$RS=12$ cm $PQ= x$ cm $r= 10$ cm $MN=14$ cm	$OM = (OR^2 - RM^2) = 8$ cm Now $ON = 14 - 8 = 6$ cm $PN = (OP^2 - ON^2) = 8$ cm $x = 2PN = 16$ cm	$(10^2 - 6^2) = 64 = 8$

**Question 23 :**

Select the word which means the same as the group of words given. A family of young animals.

Difficulty : Moderate

Average Time : 167 Seconds

**Options :**

1. Offspring
2. Nest
3. Clutch
4. Brood

**Solution :**

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

1. **Brood:** a family of young animals, especially of a bird, produced at one hatching or birth.
2. **Offspring:** the product of the reproductive processes of an animal or plant.
3. **Nest:** a structure that a bird builds to keep its eggs and babies in.
4. **Clutch:** to grasp or hold with or as if with the hand or claws usually strongly, tightly.

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

### Comprehension :

Direction: 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. Canada is three times the size of India (1)\_\_\_\_\_ its population is only about 26 million. The average (2)\_\_\_\_\_ of population is less than three persons per square kilometer (3)\_\_\_\_\_ Canada. The distribution of population is highly (4)\_\_\_\_\_. Nearly 80 per cent of the people (5)\_\_\_\_\_ in a narrow belt less than 300 kilometer wide along the southern border. The rest of the country has a very sparse population due to excessive cold.

### Question 24 :

Select the most appropriate option for blank No. (2).

Difficulty : Moderate

Average Time : 82 Seconds

### Options :

1. frequency
2. quantity
3. consistency
4. density

### Solution :

Word meaning	Application	Synonym	Antonym
'Density' meaning 'the quantity of people or things in a given area or space'	<p>For example: The population density of the state of New Jersey is very high which leads to much traffic on the roads.</p> <p>As later in the sentence density of Canada is mentioned.</p> <p>Hence, '<b>Density</b>' is the correct answer.</p>	<p>Consistence, consistency, thickness, viscosity, viscosity.</p>	<p>Acumen, alertness, astuteness, discernment, insight.</p>

### Question 25 :

PQRS is a cyclic quadrilateral. If P is thrice R and S is 5 times Q, what is the sum of Q and R?

Difficulty : Moderate

Average Time : 68 Seconds

Options :

1.  $75^\circ$
2.  $65^\circ$
3.  $72^\circ$
4.  $70^\circ$

Solution :

Correct answer is **option 1** i.e.  $75^\circ$

Concept	Understanding	Application	Fair calculation
Sum of opposite angles in cyclic quadrilateral = 180	$P = 3R$ and $S = 5Q$  $P + R = Q + S = 180$	$P + R = 180$ $4R = 180$ $R = 45$  $Q + S = 180$ $6Q = 180$ $Q = 30$	$180/4 = 45$ $180/6 = 30$
		$R + Q = 75$	$45 + 30 = 75$

Question 26 :

The value of  $16 \div 4 \text{ of } 4 \times [3 \div 4 \text{ of } \{4 \times 3 \div (3 + 3)\}] \div (2 \div 4 \text{ of } 8)$  is:

Difficulty : Moderate

Average Time : 227 Seconds

Options :

1. 16



48

3. 9

4. 6

**Solution :**Correct answer is **option 4** i.e. **6**

Application

$$16 \div 4 \text{ of } 4 \times [3 \div 4 \text{ of } \{4 \times 3 \div (3 + 3)\}] \div (2 \div 4 \text{ of } 8)$$

$$16 \div 16 \times [3 \div 4 \text{ of } \{4 \times 3 \div 6\}] \div (2 \div 32)$$

$$1 \times [3 \div 4 \text{ of } \{2\}] \div 1/16$$

$$1 \times [3 \div 8] \div 1/16$$

$$[3 \div 8] \div 1/16$$

6

**Question 27 :**If  $33x^3 - 22y^3 = (x^3 - y^2)(Ax^2 + By^2 + Cxy)$  then the value of  $(A \times B) \div C$  is:

Difficulty : Moderate

Average Time : 98 Seconds

**Options :**

1. 66

2. 63

3. 6

4. 3

**Solution :**The correct answer is **option 3** i.e. **6**



Concept	Understanding	Application
Comparing the coefficients of variables	Expand the equation	$33x^3 - 22y^3 = (x^3 - y^2)(Ax^2 + By^2 + Cxy)$ $33x^3 - 22y^3 = 3Ax^3 + 3Bxy^2 + 3Cx^2y - 2Ax^2y - 2By^3 - 2Cxy^2$
		<p>Comparing the coefficient:</p> <p><math>A = 3</math> and <math>B = 2</math></p> <p><math>3C - 2A = 0</math></p> <p><math>C = 6</math></p> <p>Hence, <math>(A \times B) \div C = (3 \times 2) \div 6 = 6/6 = 6</math></p>

### Question 28 :

The area of a ABC is one unit. DE is a straight line parallel to BC, joining the points D and E on AB and AC respectively such that  $AD : DB = 1 : 6$ . The ratio of the areas of ADE and ABC is:

Difficulty : Moderate

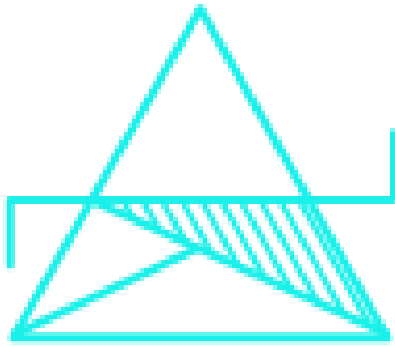
Average Time : 179 Seconds

### Options :

1. 1 : 36
2. 1 : 7
3. 1 : 6
4. 1 : 49

### Solution :

Correct answer is **option 4** i.e. 1 : 49



Concept	Understanding	Application
Similarity of triangles  Area of triangle A/Area of triangle B = (side of A) <sup>2</sup> /(side of B) <sup>2</sup>	DE is a straight line parallel to BC  AD : DB = 1 : 6  AD = x, DB = 6x AB = x + 6x = 7x	Area of ADE/Area of ABC = (AD) <sup>2</sup> /(AB) <sup>2</sup> = 1 <sup>2</sup> /7 <sup>2</sup> = 1/49

**Question 29 :**

The average of eleven numbers is 54. The average of the first four numbers is 48 and that of the next four numbers is 25% more than the average of the first four. The ninth number is 8 greater than the 11th number and the tenth number is 4 greater than the 11th number. What is the average of the 9th and the 10th numbers?

Difficulty : Moderate

Average Time : 167 Seconds

**Options :**

1. 54

2. 56

52.6

4. 54.4

**Solution :**

Correct answer is **option 2** i.e. **56**

Concept	Understanding	Application
Average = (Sum of numbers)/(Total numbers)	<p>Average of 11 numbers = 54</p> <p>Average of first four numbers = 48</p> <p>Average of Next four numbers is 25% more than first four numbers</p>	<p>Sum of 11 numbers = <math>54 \times 11 = 594</math></p> <p>Sum of first four numbers = <math>48 \times 4 = 192</math></p> <p>Average of next four numbers = <math>48 \times 1.25 = 60</math></p> <p>Sum of next four numbers = <math>60 \times 4 = 240</math></p> <p>So, total sum of first eight numbers = <math>192 + 240 = 432</math></p>
	<p>The 9<sup>th</sup> number is 8 greater than the 11<sup>th</sup> number and the 10<sup>th</sup> number is 4 greater than the 11<sup>th</sup> number</p> <p>Let 11<sup>th</sup> number is 'x' then, 9<sup>th</sup> number and 10<sup>th</sup> number will be (x + 8) and (x + 4) respectively</p>	<p>Sum of 9th , 10th and 11th number = <math>594 - 432 = 162</math></p> <p><math>x + x + 8 + x + 4 = 162</math></p> <p><math>x = 50</math></p> <p>9th number = <math>x + 8 = 50 + 8 = 58</math></p> <p>10th number = <math>x + 4 = 50 + 4 = 54</math></p> <p>Average = <math>(58 + 54) / 2 = 56</math></p>

**Question 30 :**

If  $a + b + c = 2$ ,  $a^2 + b^2 + c^2 = 26$ , then the value of  $a^3 + b^3 + c^3 - 3abc$  is:

Difficulty : Moderate

Average Time : 214 Seconds

Options :

1. 74
2. 78
3. 71
4. 69

Solution :

Correct answer is **option 1** i.e. 74

Concept	Understanding	Application	Fair calculation
$(a+b+c)^2 = a^2+b^2+c^2 + 2(ab+ bc +ca)$  $a^3+b^3 + c^3 - 3abc = (a+b+c)[a^2+b^2+c^2-ab-bc-ca]$	$a + b + c = 2$  $a^2 + b^2 + c^2 = 26$	$4 = 26 + 2(ab+ bc +ca)$  $(ab+ bc +ca) = -11$	$(4 - 26)/2 = -11$
		$a^3 + b^3 + c^3 - 3abc$ $= 2 (26 - (-11))$ $= 74$	$2 \times 37 = 74$

Question 31 :

\_\_\_\_\_ is the oldest member of the 16th Lok Sabha.

Difficulty : Moderate

Average Time : 194 Seconds

Options :

1. Farooq Abdullah
2. Ram Jethmalani
3. Murli Manohar Joshi

### Lal Krishna Advani

**Solution :**

The oldest member of 16th Loksabha is...	Lal Krishna Advani
Who is he?	<p>Lal Krishna Advani, (born November 8, 1927, Karachi, British India, founding member of the Bharatiya Janata Party (BJP) and deputy prime minister of India (2002–04) who was largely responsible for popularizing and strengthening the BJP.</p> <p>He served as Minister of Home Affairs in the BJP-led National Democratic Alliance government from 1998 to 2004. He served as 7th Deputy Prime Minister of India from 2002 to 2004 under Atal Bihari Vajpayee. He was the Leader of the Opposition in the 10th Lok Sabha and 14th Lok Sabha. Advani began his political career as a volunteer of Rashtriya Swayamsevak Sangh, a right-wing Hindu nationalist organisation.</p> <p>In 2015 he was awarded the Padma Vibhushan, India's second highest civilian honor.</p>

**Question 32 :**

To do a certain work, the ratio of the efficiencies of A, B and C is 7 : 5 : 6. Working together, they can complete the same work in 35 days. B and C work together for 21 days. The remaining work will be completed by A alone in:

**Difficulty : Moderate****Average Time : 139 Seconds****Options :**

1. 60 days
2. 57 days
3. 50 days

54 days

**Solution :**

The correct answer is **option 2** i.e. **57 days**

Understanding	Application
<p>A, B and C together takes 35 days.</p> <p>Ratio of the efficiencies of A, B and C is 7 : 5 : 6</p> <p>Let the efficiencies be 7x, 5x, 6x respectively</p>	<p>Total work = <math>(7x + 5x + 6x) \times 35 = 630x</math> units</p>
<p>B and C work together for 21 days</p>	<p>Work done by B and C together in 21 days = <math>(5x + 6x) \times 21 = 231x</math></p>
<p>Remaining work will be completed by A alone</p>	<p>Remaining work = <math>630x - 231x = 399x</math></p> <p>Time taken by A = <math>399x/7x = 57</math> days</p>

**Question 33 :**

In ABC, D is a point on AC such that AB = BD = DC, if  $\angle BAD = 70^\circ$ , then the measure of B is:

Difficulty : Moderate

Average Time : 127 Seconds

**Options :**

1.  $80^\circ$
2.  $75^\circ$
3.  $85^\circ$
4.  $70^\circ$

**Solution :**

Correct answer is **option 2** i.e.  **$75^\circ$**

Concept	Understanding	Application	Fair calculation

<p>Angles opposite to the equal sides are equal.</p> <p>Sum of angles of a triangle = 180</p>	<p><math>AB = BD = DC</math></p> <p><math>\angle BAD = 70^\circ</math></p>	<p>ABD is isosceles triangle.</p> <p><math>\angle BDA = \angle BAD = 70^\circ</math></p> <p>So, <math>\angle ABD = 180 - 70 - 70 = 40^\circ</math></p> <p><math>\angle BDC = 180 - 70 = 110^\circ</math></p> <p>Now BDC is also isosceles triangle,</p> <p><math>\angle DBC = \angle DCB = (180 - 110)/2 = 35^\circ</math></p> <p><math>\angle B = 40 + 35 = 75^\circ</math></p>	<p><math>(180 - 110)/2 = 35^\circ</math></p>
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**Question 34 :**

Difficulty : Moderate

Average Time : 199 Seconds

**Options :**

1. 2
2. 1
3. cosec<sup>2</sup>
4. sin<sup>2</sup>

**Solution :**

Correct answer is **option 1** i.e. 1

Concept	Understanding	Application
Cosec = 1/Sin	Put Cosec = 1/Sin	$\left( \frac{1}{1 + \sin^2 \theta} + \frac{1}{1 + (1/\sin^2 \theta)} \right)$ $\Rightarrow \left( \frac{1}{1 + \sin^2 \theta} + \frac{\sin^2 \theta}{1 + \sin^2 \theta} \right)$ $\Rightarrow 1$

**Question 35 :**

if then the value of  $(\tan \theta + \operatorname{cosec} \theta)$  is:

Difficulty : Moderate

Average Time : 111 Seconds

**Options :**

- (52)/3
- 2. (43)/3
- 3. (53)/3
- 4. (52)/2

**Solution :**

Correct answer is **option 3** i.e. **(53)/3**

Concept	Understanding	Application	Fair calc
<p>Tan = Perpendicular/Base</p> <p>Cosec = Hypotenuses/Perpendicular</p> <p>Sec = Hypotenuses/Base</p>	$\frac{\cos \theta}{1 - \sin \theta} + \frac{\cos \theta}{1 + \sin \theta} = 4, 0^\circ < \theta < 90^\circ$	$\frac{\cos \theta (1 + \sin \theta)}{(1 - \sin \theta)(1 + \sin \theta)} + \frac{\cos \theta (1 - \sin \theta)}{\cos \theta (1 - \sin \theta)} = 4$ $\frac{\cos \theta (1 + \sin \theta) (1 + \sin \theta)}{\cos^2 \theta} + \frac{\cos \theta (1 - \sin \theta)}{\cos^2 \theta} = 4$ <p>Sec <math>\theta = 2 = H/B</math> So, Tan <math>\theta = P/B = \sqrt{3}</math> Cosec <math>\theta = H/P = 2/\sqrt{3}</math></p>	P = ) =
		<p>Required,</p> <p>tan + cosec = <math>3 + 2/\sqrt{3} = 5/3 = (53)/3</math></p>	

**Question 36 :**

\_\_\_\_\_ was the first and only Muslim woman to ever sit on the throne of Delhi.

Difficulty : Moderate

Average Time : 179 Seconds

**Options :**

- 1. Razia Sultan
- 2. Shajar Al Durr
- 3. Gevher Nesibe





**Fatima Al Fihriya**

**Solution :**

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

- **Razia Sultan** was the first Muslim female ruler of the Delhi Sultanate. She ruled Delhi from 1236 to 1240.
- During her reign, she ordered coins to be minted with her title as "Pillar of Women, Queen of the Times, Sultan Razia, Daughter of Shamsuddin Iltutmish."
- She is notable for being the only woman to have held the throne in the Delhi Sultanate.

**Question 37 :**

Minimum Support Price (MSP) is recommended by \_\_\_\_\_.

**Difficulty : Moderate**

**Average Time : 51 Seconds**

**Options :**

1. **The Farmers' Welfare Society**
2. **The Food Safety and Standards Authority of India**
3. **The Commission for Agricultural Costs and Prices**
4. **The Commission for Weights and Measures**

**Solution :**

The correct answer is **option 3** i.e. **The Commission for Agricultural Costs and Prices**.

- Minimum Support Price (MSP) is a form of market intervention by the Government of India to insure agricultural producers against any sharp fall in farm prices.
- The minimum support prices are announced by the Government of India at the beginning of the sowing season for certain crops on the basis of the recommendations of the Commission for Agricultural Costs and Prices (CACP).
- Government announces minimum support prices (MSPs) for 22 mandated crops and fair and remunerative prices (FRP) for sugarcane.
- The minimum support prices are guaranteed prices for their produce from the Government.

**Question 38 :**

Varkala, Chowara, Chavakkad and Nattika are beaches in the state of \_\_\_\_\_.

**Difficulty : Moderate**

**Average Time : 64 Seconds**

**Options :**

1. **Karnataka**

Tamil Nadu

3. Kerala

4. Maharashtra

### Solution :

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

Varkala, Chowara, Chavakkad, and Nattika are beaches located in the state?	<b>Kerala</b>
<ul style="list-style-type: none"><li>• The coastal areas of Kerala are well known for boat racing, tourist destinations, etc.</li><li>• As Kerala is a coastal state, some of the most popular tourist destinations in Kerala are beaches like <b>Kovalam, Varkala, Chowara, Chavakkad, Nattika, Cherai, Kizhunna, Poovar ... etc.</b></li></ul>	

### Question 39 :

The Banking Regulation Act was passed in India in \_\_\_\_\_.

Difficulty : Moderate

Average Time : 55 Seconds

### Options :

1. 1965
2. 1949
3. 1974
4. 1951

### Solution :

The correct answer is **option 2** i.e. **1949**.

The Banking Regulation Act was passed in India in	<b>1949</b>
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What is Banking Regulation Act?

- The Banking Regulation Act, 1949 is legislation in India that regulates all banking firms in India. Passed as the Banking Companies Act 1949, it came into force on 16 March 1949 and changed to Banking Regulation Act 1949 on 1 March 1966. It is applicable to Jammu and Kashmir since 1956.
- The Act has 5 parts and 5 Schedules regarding the regulation of banks in the country.
- **The main objective of the banking regulation act is to ensure sound banking through regulations covering the opening of branches and the maintenance of liquid assets.**
- It assigns power to RBI to appoint, reappoint, and remove the chairman, director, and officers of the banks.

**Question 40 :**

Bariatric surgery makes changes to a person's \_\_\_\_\_.

**Difficulty : Moderate**

**Average Time : 70 Seconds**

**Options :**

Lungs

2. Digestive system

3. Nasal passage

4. heart

**Solution :**

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

Bariatric surgery makes changes to a person's	Digestive system
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What is Bariatric Surgery?

- Bariatric surgery, such as gastric bypass, gastric sleeve, and laparoscopic adjustable gastric banding, work by changing the anatomy of your gastrointestinal tract (stomach and digestive system) or by causing different physiologic changes in your body that change your energy balance and fat metabolism.
- Gastric bypass surgery is the most common type of weight-loss surgery.
- It is done to maintain BMI, weight-related health problem, such as type 2 diabetes, high blood pressure or severe sleep apnea.

**Question 41 :**

What is India's rank in 2019 World Happiness Report?

**Difficulty : Moderate**

**Average Time : 62 Seconds**

**Options :**

1. 160
2. 130
3. 150
4. 140

**Solution :**

Rank of India	<u>140<sup>th</sup></u>
Report Name	“World Happiness Report 2019– Beyond income, beyond averages, beyond today: Inequalities in human development in the 21st century”
Who topped the list?	Finland
Total Countries	156 countries
India’s Rank in 2018	133
<ul style="list-style-type: none"><li>• The list is prepared by UN Sustainable Development Solutions Network.</li><li>• In 2018, India was placed on 133 position, and in 2019 it was placed at 140.</li><li>• In 2015, India was on 117 spot, in 2016 it was ranked on 118 spot.</li></ul>	

**Question 42 :**

Which of the following is NOT a vocal form of Hindustani classical music?

**Difficulty : Moderate****Average Time : 199 Seconds****Options :**

1. Pakhawaj
2. Tarana
3. Drupad
4. Dhamar

**Solution :**

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

1. Pakhawaj is an Indian-origin musical instrument that is a barrel-shaped, two-headed drum.
2. The pakhavaj rhythms are taught by a series of mnemonic syllables known as bol.

**Question 43 :**

Article \_\_\_\_\_ of the Constitution of India gives the Election Commission the power to supervise elections to the



Parliament and state legislatures.

Difficulty : Moderate

Average Time : 41 Seconds

Options :

1. 342
2. 324
3. 314
4. 341

Solution :

The correct answer is **option 2** i.e. **324**.

- **Article 324** deals with Superintendence, direction, and control of elections are to be vested in an Election Commission.
- **Articles 341 and 342** are related to special provisions for SC, ST, OBC, Minorities, etc.
- **Article 314** is related to services under the center and state.

Question 44 :

\_\_\_\_\_ is the largest river island in the world.

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. Munroe
2. Majuli
3. Bahvani
4. Umananda

Solution :

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

- **Majuli island is situated in Assam in the Brahmaputra river**, it is the largest river island in the world.
- It is also the first island in India to be declared as a district in the year 2016.
- This island is formed by the River Subansiri in the north and River Brahmaputra in the south.
- It has been known as the cultural capital of Assam ever since the 16th century and the main village of Majuli Island is Naghmar.

Question 45 :





In the sentence identify the segment which contains the grammatical error. The river Yamuna has many non-native species like goldfish that is affecting its ecosystem.

Difficulty : Moderate

Average Time : 58 Seconds

Options :

1. The river Yamuna
2. has many non-native species
3. its eco-system
4. that is affecting

Solution :

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

1. The error lies in part 4 of the statement because of the wrong use of "**Subject-verb agreement**".
2. We need to replace "**IS**" with "**ARE**" for making the statement grammatically correct.

Grammatical concept:-

- If the subject is plural, the verb must also be plural.
- Here, the subject is '**non-native species**' which is **plural**, and hence, the verb must also be plural.
- Hence, '**that are affecting**' is the correct answer.

**Affecting:** have an effect on.

The correct sentence will be-

**The river Yamuna has many non-native species like goldfish that is affecting its ecosystem.**

Question 46 :

In ACE, B and D are the points on side AC and CE, respectively, such that  $BD \parallel AE$  and  $AE/BD = 8/3$ . What is the ratio of the area of BDC to that of AEC?

Difficulty : Moderate

Average Time : 77 Seconds

Options :

1. 8 : 11
2. 9 : 64
3. 9 : 16

3 : 8

**Solution :**

The correct answer is **option 2** i.e. **9 : 64**

Concept	Understanding	Application
Area of triangle A/Area of triangle B = (side of A) <sup>2</sup> /(side of B) <sup>2</sup>	$AE = 8BD/3$  ACE & BDC are similar triangle (Since $BD \parallel AE$ )	$Ratio = BD^2/AE^2 = (1/(8/3)^2) = 9/64$  
	$Area\ of\ BDC / Area\ of\ ACE = (side\ BD)^2 / (side\ AE)^2$	

**Question 47 :**

Select the most appropriate meaning of the given idiom. butterflies in the stomach.

Difficulty : Moderate

Average Time : 131 Seconds

**Options :**

1. being angry
2. being excited
3. being nervous
4. being hungry

**Solution :**

Idiom meaning	Usage
<b>Butterflies in the stomach:</b> To feel nervous or anxious.	The butterflies in my stomach almost kept me from going on stage and performing.

### Comprehension :

Direction: 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. Canada is three times the size of India (1)\_\_\_\_\_ its population is only about 26 million. The average (2)\_\_\_\_\_ of population is less than three persons per square kilometer (3)\_\_\_\_\_ Canada. The distribution of population is highly (4)\_\_\_\_\_. Nearly 80 per cent of the people (5)\_\_\_\_\_ in a narrow belt less than 300 kilometer wide along the southern border. The rest of the country has a very sparse population due to excessive cold.

### Question 48 :

Select the most appropriate option for blank No. (1).

Difficulty : Moderate

Average Time : 68 Seconds

### Options :

1. until
2. but
3. so
4. because

### Solution :

Concept/Grammar rules	Application
<p><b>but (conj):</b> used when connecting two different things that are not in agreement.</p>	<p>Here in the sentence, the size of a country is being compared with its population.</p> <p>Therefore, 'But' will be used to introduce the phrase contrasting with what has already been mentioned in the sentence.</p> <p><b>Hence, 'but' is the correct answer.</b></p>

### Comprehension :

Direction: 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. Canada is three times the size of India (1)\_\_\_\_\_ its population is only about 26 million. The average (2)\_\_\_\_\_ of population is less than three persons per square kilometer (3)\_\_\_\_\_ Canada. The distribution of population is highly (4)\_\_\_\_\_. Nearly 80 per cent of the people (5)\_\_\_\_\_ in a narrow belt less than 300 kilometer wide along the southern border. The rest of the country has a very sparse population due to excessive cold.

### Question 49 :

Select the most appropriate option for blank No. (4).

Difficulty : Moderate

Average Time : 80 Seconds

### Options :

1. rough
2. differing
3. uneven
4. infrequent

### Solution :

Word meaning	Application	Synonym	Antonym
<p><b>'Uneven'</b> meaning <b>not regular, consistent, or equal.</b></p>	<p>The latter part of the sentence 'Nearly 80 per cent of the people...' suggests that the distribution of population is not regular.</p> <p>For example: the driveway is uneven and collects water in several large puddles whenever it rains.</p> <p>Hence, <b>'Uneven'</b> is the correct answer.</p>	<p>Broken, bumpy, coarse, irregular, jagged, lumpy, pebbly, ragged.</p>	<p>Even, flat, level, plane, smooth.</p>

### Comprehension :

Direction: 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. Canada is three times the size of India (1)\_\_\_\_\_ its population is only about 26 million. The average (2)\_\_\_\_\_ of population is less than three persons per square kilometer (3)\_\_\_\_\_ Canada. The distribution of population is highly (4)\_\_\_\_\_. Nearly 80 per cent of the people (5)\_\_\_\_\_ in a narrow belt less than 300 kilometer wide along the southern border. The rest of the country has a very sparse population due to excessive cold.

### Question 50 :

Select the most appropriate option for blank No. (5).

Difficulty : Moderate

Average Time : 89 Seconds

**Options :**

1. subsist
2. remain
3. survive
4. live

**Solution :**

Concept/Grammar rules	Application	Vocabulary
The blank needs a verb meaning 'reside'.	'Live' meaning 'make one's home in a particular place or with a particular person' is the apt fit for the blank as the sentence discusses about the people living in the narrow belt of the southern belt.  Hence, 'Live' is the correct answer.	<b>Sparse:</b> thinly dispersed or scattered.

**Question 51 :**

Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select 'No improvement'. We had never seen so strong blizzard , the wind speed was 130 km per hour.

Difficulty : Moderate

Average Time : 66 Seconds

**Options :**

1. No improvement
2. such strong a blizzard
3. so strong the blizzard
4. such a strong blizzard

**Solution :**

The correct answer is **option 4 i.e. such a strong blizzard.**

- **Such** is a determiner; **so** is an adverb.
- We use '**such + noun phrase**' and '**so + adjective or adverb phrase**'.
- The phrase '**a strong blizzard**' is a noun phrase. So, we will use '**such**' in the sentence.
- Ex: She is such a great cook.

Hence, 'such a strong blizzard' is the correct answer.

**Blizzard:** a severe snowstorm with high winds and low visibility.

The correct sentence will be-

**We had never seen such a strong blizzard , the wind speed was 130 km per hour.**

**Question 52 :**

Select the wrongly spelt word.

Difficulty : Moderate

Average Time : 66 Seconds

**Options :**

1. remittance
2. reminascent
3. remnant
4. remembrance

**Solution :**

Word meaning	Usage	Synonym	Antonym
<p><b>Reminiscent:</b> tending to remind one of something,provoking a memory or mental association.</p>	<p>She smiled at me in a way reminiscent of a doting aunt.</p> <p>Hence, '<b>reminiscent</b>' is the correct answer.</p>	<p>Evocative,suggestive, anecdote,Chronicle, memoirs, nostalgia.</p>	<p>Unaware, incognizant, unmindful, mindless, oblivious, forgetful.</p>

**Question 53 :**

The radii of three concentric circles are in the ratio of 4 : 5 : 7. What is the ratio of the area between the two inner circlesto that between the two outer circles?

Difficulty : Moderate

Average Time : 61 Seconds

**Options :**

4 : 7

2. 5 : 9

3. 3 : 8

4. 4 : 5

**Solution :**

Correct answer is **option 3** i.e. **3 : 8**

Concept	Understanding	Application	Fair calculation
Area of circle = $r^2$	The ratio of radii of the three concentric circles is 4 : 5 : 7	Then the area between the inner circles is = $(5x)^2 - (4x)^2 \text{ unit}^2 = 9x^2 \text{ unit}^2$	$5^2 - 4^2 = 25 - 16 = 9$
	Let the radii of the three circles be 4x, 5x and 7x	Area between the outer circles is = $(7x)^2 - (5x)^2 \text{ unit}^2 = 24x^2 \text{ unit}^2$	$7^2 - 5^2 = 49 - 25 = 24$
		Required ratio = $9x^2 : 24x^2 = 3 : 8$	

**Question 54 :**

Some fruits are bought at a rate of 11 for Rs. 100 and an equal number at a rate of 9 for Rs. 100. If all the fruits are sold at a rate of 10 for Rs. 100, then what is the gain or loss percent in the entire transaction?

Difficulty : Moderate

Average Time : 237 Seconds

**Options :**

1. Loss, 1%
2. Gain, 1%
3. Gain, 5%
4. Loss, 5%

**Solution :**

The correct answer is **option 1** i.e. **Loss, 1%**

Understanding	Application	Fair calculation

<p>CP of 1 fruit from 1<sup>st</sup> lot of fruits = <math>100/11</math></p> <p>CP of 1 fruit from 2<sup>nd</sup> lot of fruits = <math>100/9</math></p> <p>SP of 1 fruit = <math>100/10 = 10</math></p> <p>Let total fruits bought = <math>99 \times 2 = 198</math></p>	<p>Total CP of 1<sup>st</sup> lot of fruits = <math>99 \times (100/11) = 900</math></p> <p>Total CP of 2<sup>nd</sup> lot of fruits = <math>99 \times (100/9) = 1100</math></p> <p>Total CP = <math>900 + 1100 = 2000</math></p> <p>Total SP = <math>198 \times (100/10) = 1980</math></p>	<p>LCM of 9 and 11 = 99</p>
	<p>Percentage loss = <math>(2000 - 1980)/1980 = 1\%</math></p>	<p><math>200/1980 = 0.01</math></p>

**Question 55 :**

Sudha saves 15% of her income. If her expenditure increases by 20% and savings increase by 60%, then by what percent has her income increased?

**Difficulty : Moderate**

**Average Time : 166 Seconds**

**Options :**

1. 24%
2. 30%
3. 35%
4. 26%

**Solution :**

The correct answer is **option 4** i.e. **26%**

Concept	Understanding	Application
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Income = Expenditure + Savings	Saving= 15% and Expenditure = 85%	New Expenditure = $85 \times 1.2 = 102\%$
	Expenditure increases by 20% and savings increase by 60%,	New savings = $15 \times 1.6 = 24\%$  New Income = $102 + 24 = 126\%$
		Percentage increase  = $(126 - 100)/100 \times 100$  = 26%

**Question 56 :**

If  $(1 + \tan^2 x) + (1 + (\tan^2 x) - 1) = k$ , then  $k = ?$

Difficulty : Moderate

Average Time : 52 Seconds

**Options :**

1.  $\sin x \cos x$
2.  $\operatorname{cosec} x \cos x$
3.  $\sin x \sec x$
4.  $\operatorname{cosec} x \sec x$

**Solution :**

Correct answer is **option 4** i.e.  **$\operatorname{cosec} x \sec x$**

Concept	Understanding	Application
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Tan x = Sin x/Cos x	Put Tan x = Sinx/Cosx	$(1 + (\sin x/\cos x)^2) + (1 + (\cos x/\sin x)^2) = k$
$\sin^2 x + \cos^2 x = 1$		$(\sin^2 x + \cos^2 x)/\cos^2 x + (\sin^2 x + \cos^2 x)/\sin^2 x = k$
$1/\sin x = \operatorname{cosec} x$		$1/\cos^2 x + 1/\sin^2 x$
$1/\cos x = \operatorname{sec} x$		$(\sin^2 x + \cos^2 x)/\sin^2 x \cos^2 x$
		$1/\sin^2 x \cos^2 x$
		$\operatorname{cosec}^2 x \operatorname{sec}^2 x$
		$k = \operatorname{cosec} x \operatorname{sec} x$

### Comprehension :

Direction : The table shows the production of different types of cars (in thousands) City/Year 2013 2014 2015 2016 2017 A 48 47 50 61 64 B 47 55 58 54 66 C 52 58 62 66 72 D 60 53 56 65 66 E 43 47 54 64 62

### Question 57 :

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 the cars in 2016 of type D will be:

Difficulty : Moderate

Average Time : 236 Seconds

### Options :

1. 77°
2. 67.2°
3. 78°
4. 79.2°

### Solution :

Correct answer is **option 3** i.e. **78°**

Concept	Understanding	Application	Fair calculation
Pie chart represents 360° angle	Extract data from the table  Production of type D car in 2016 = 65	Total production of type D cars (2013 to 2017) = 60+53+56+65+66 = 300  central angle = $(65/300) \times 360^\circ = 78^\circ$	$(65/300) \times 360 = 65 \times 1.2 = 78^\circ$

**Comprehension :**

Direction : The table shows the production of different types of cars (in thousands) City/Year 2013 2014 2015 2016 2017 A 48 47 50 61 64 B 47 55 58 54 66 C 52 58 62 66 72 D 60 53 56 65 66 E 43 47 54 64 62

**Question 58 :**

The ratio of the total production of type A cars in 2017 and type D cars in 2015 to the total production of type B and type E cars in 2013 is:

Difficulty : Moderate

Average Time : 163 Seconds

**Options :**

1. 4 : 3
2. 7 : 8
3. 8 : 7
4. 3 : 4

**Solution :**

Correct answer is **option 1** i.e. 4 : 3

Concept	Understanding	Application	Fair calculation
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Sum and Ratio	Extract data from the given table	Total production of type A cars in 2017 and type D cars in 2015 = $64+56 = 120$ Total production of type B and type E cars in 2013 = $47+43 = 90$ Required ratio = $120:90 = 4:3$	$120 : 90$ $= 4 : 3$
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**Question 59 :**

During photosynthesis, green plants use energy from sunlight to synthesise \_\_\_\_\_ from carbon dioxide and water.

Difficulty : Moderate

Average Time : 141 Seconds

**Options :**

1. Galactose
2. Fructose
3. Sucrose
4. Glucose

**Solution :**

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

- Photosynthesis is the process by which plants, some bacteria and some protistants use the energy from sunlight to produce glucose from carbon dioxide and water.
- This glucose can be converted into pyruvate which releases adenosine triphosphate (ATP) by cellular respiration.
- The oxygen is provided to atmosphere through plants where glucose is used to its own growth.
- Glucose, Fructose, Sucrose are all forms of simple sugar.

**Question 60 :**

Which of the following acid is found in Apples?

Difficulty : Moderate

Average Time : 51 Seconds

**Options :**

1. Sulphuric Acid
2. Nitric Acid

**Malic Acid****4. Formic Acid****Solution :**

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

The acid found in apples is known as Malic acid.

Malic acid is an organic compound with the molecular formula  $C_4H_6O_5$ .

- It is a dicarboxylic acid and is used as a food additive.
- Malic acid and it is also found in grapes and rhubarb.

**Question 61 :**

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 : 50 Seconds****Options :**

1. EFST
2. ABOP
3. CDQR
4. GHTV

**Solution :**

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

Understanding	Application
1) EFST: E + 1 = F; S + 1 = T	Option 4 does not follow this logic hence, it is odd.
2) ABOP: A + 1 = B; O + 1 = P	
3) CDQR: C + 1 = D; Q + 1 = R	
4) <b>GHTV: G + 1 = H; T + 1 = U</b>	

**Question 62 :**

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 : 52 Seconds****Options :**

1. Cessation
2. Valediction
3. Intermission
4. Closure

**Solution :**

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

**Understanding**

Except for intermission, all the three has the same meaning i.e. to end or stop something.

**Question 63 :**

What will be the value of the following equation if '÷' means 'addition', '+' means 'subtraction', '-' means 'multiplication' and 'x' means 'division'?  $72 \times 9 - 3 \div 8 + 2 = ?$

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

1. 30
2. 35
3. 25
4. 40

**Solution :**

The correct answer is **option 1** i.e. **30**

**Understanding****Application**

BODMAS	$72 \times 9 - 3 \div 8 + 2 = ?$
'÷' means 'addition',	After changing the symbols,
'+' means 'subtraction',	$72 \div 9 \times 3 + 8 - 2$
'-' means 'multiplication'	$8 \times 3 + 8 - 2$
'x' means 'division'	$24 + 8 - 2$
	$32 - 2$
	30

**Question 64 :**

Arrange the following words in a logical and meaningful order. 1. Cloud 2. Rainbow 3. Devastation 4. Rain 5. Low Pressure 6. Flood

Difficulty : Moderate

Average Time : 58 Seconds

**Options :**

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

**Solution :**

The correct answer is **option 2**.

Concept	Understanding	Application
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The complete process of Rain and Flood.	Low pressure creates Cloud then Rain occurs then Rainbow can be seen and then if the Rain is in a major amount, it brings flood and then devastation.	The logical order is-  5. Low pressure  1. Cloud 4. Rain 2. Rainbow 6. Flood 3. Devastation
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**Question 65 :**

A letter series is given below in which some letters are missing. Select the option that gives the letters that can fill these blanks in that order. a\_ca\_bab\_ad\_abc\_db

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

1. bdcba
2. bcdba
3. bdcab
4. bddac

**Solution :**

The correct answer is option 1 i.e. bdcba

Understanding	Application
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The sequence is – abcadb a_ca_bab_ad_abc_db We need to fill it with the help of options and then check the pattern.	The complete series is as follows: abcadb/abcadb/abcadb Hence, bdcba will be in the blank spaces.
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**Question 66 :**

Select the word pair in which the two words are related in the same way as the two words in the following word pair.

Author : Book

Difficulty : Moderate

Average Time : 57 Seconds

**Options :**

1. Mother : Son
2. Doctor : Medicine
3. Reptile : Crawl
4. Spider : Web

**Solution :**

The correct answer is **Option 4** i.e. **Spider : Web**

Understanding	Application
A book is written (created) by an author.	Similarly, a spider web is created by a spider.

**Question 67 :**

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

Difficulty : Moderate

Average Time : 49 Seconds

**Options :**

1. Study room : Table lamp

Kitchen : Frying pan

3. Garden : Ladle

4. Bathroom : Shower

**Solution :**

The correct answer is **option 3** i.e. **Garden : Ladle**

Understanding	Application
Bathroom has a Shower, Study Room has a Table Lamp and Kitchen has a Frying Pan.	But Ladle is a large long-handled spoon and is not used in Garden.

**Question 68 :**

Choose the Venn diagram that best illustrates the relationship among the following classes: Women, Entrepreneurs, Engineers

Difficulty : Moderate

Average Time : 49 Seconds

**Options :**

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

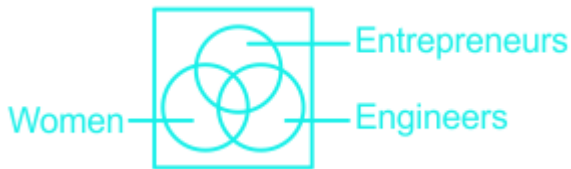
**Solution :**



The correct answer is **option 1.**

### Understanding

Some women can be entrepreneurs. Some entrepreneurs can be engineers. Similarly, some engineers can be women.



**Question 69 :**

Select the figure that will come next in the following figure series.

**Difficulty : Moderate**

**Average Time : 70 Seconds**

**Options :**



4.



**Solution :**

The correct answer is **option 1**

Understanding	Application
<p>In question figure, 1st &amp; 3rd figure contain similar objects and 2nd &amp; 4th have similar objects (But in different positions)</p> <p>We get the 3rd figure, after moving the bottommost object of 1st figure to top.</p> <p>In the same manner, we get the 4th figure from the 2nd.</p>	<p>According to the above pattern, in the next figure in the series, the bottommost object will be moved to the top.</p>

**Question 70 :**

Identify the mirror image of the following figure when the mirror is placed to the right of the figure.

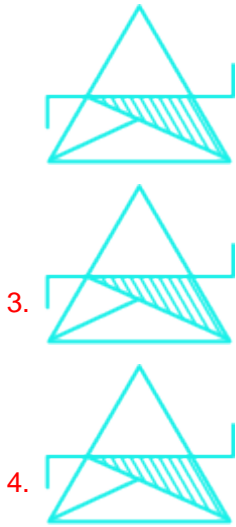
Difficulty : Moderate

Average Time : 77 Seconds

**Options :**



2.

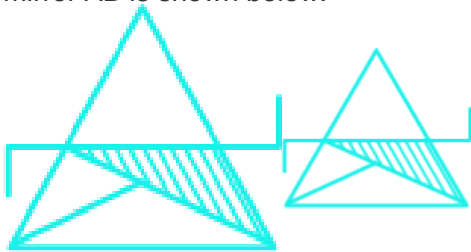


**Solution :**

The correct answer is **option 1**

### Understanding

The mirror image of the given figure along mirror AB is shown below:



**Note:** Since the mirror is placed vertically beside the question figure, the image will be formed by inverting the question figure horizontally about mirror AB.

That means the left side of the figure will become the right side and vice versa.

**Question 71 :**

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

Difficulty : Moderate

Average Time : 82 Seconds

Options :

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

Solution :

The correct answer is **option 2**

### Understanding

After unfolding, the paper will appear as follows:



In this type of question, the order of unfolding the paper will be reverse of the order in which it was folded.

**Question 72 :**

Select the option that is related to the third term in the same way as the second term is related to the first term. LAMP :



PALM :: MALE

Difficulty : Moderate

Average Time : 74 Seconds

Options :

1. ELAM
2. MEAL
3. EAML
4. LAME

Solution :

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

Understanding	Application
Position of letters in the word are changed. LAMP : PALM 1st letter is moved to 3rd position, 2nd is kept as it is, 3rd letter is moved to the last position and the last letter is moved to 1st position.	Applying the same: MALE will be coded as EAML

**Question 73 :**

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 : 55 Seconds

Options :

1. GKRV
2. BFMQ
3. EHPS
4. DGKL

Solution :

The correct answer is **Option 4** i.e., **DGKL**

Concept	Understanding	Application
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<p>The alphabets from A to Z takes a numerical position value from 1 to 26.</p>	<p>The difference of Sum of numerical position value of last 2 alphabets and Sum of numerical position value of the first 2 alphabets is 22.</p>	<p>GKRV: [R(18) + V(22)] – [G(7) + K(11)] = 22</p> <p>BFMQ: [M(13) + Q(17)] – [B(2) + F(6)] = 22</p> <p>EHPS: [P(16) + S(19)] – [E(5) + H(8)] = 22</p> <p>DGKL: [K(11) + L(12)] – [D(4) + G(7)] = 12</p> <p>Hence, DGKL is odd one.</p>
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**Question 74 :**

In a code language, SEDATIVE is coded as ATDESEVI. How would PERSONAL be coded in that language?

**Difficulty :** Moderate

**Average Time :** 64 Seconds

**Options :**

1. SOERPANL
2. SOPERLAN
3. OSREPLAN
4. SOREPLAN

**Solution :**



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

Understanding	Application
<p>The following pattern is followed:</p> <p>SEDATIVE is coded as ATDESEVI</p>	<p>Similarly for PERSONAL,</p>

**Question 75 :**

'Room' is related to 'Ceiling' in the same way as 'Mouth' is related to:

**Difficulty : Moderate**

**Average Time : 57 Seconds**

**Options :**

1. Lip
2. Teeth
3. Throat
4. Palate

**Solution :**

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

Understanding
<p>'Ceiling' is the topmost part of 'Room' and in the same way 'Palate' is the topmost part of 'Mouth'.</p>

**Question 76 :**

In which year UNESCO was established?

**Difficulty : Moderate**

**Average Time : 42 Seconds**

### Options :

1. 1946
2. 1947
3. 1949
4. 1945

### Solution :

The correct answer is **option 4** i.e. **1945**.

- UNESCO was established on **16 November 1945**.
- Through worldwide collaboration in education, the arts, sciences, and culture, the United Nations Educational, Scientific, and Cultural Organisation seeks to advance world peace and security.

### Question 77 :

The Khajuraho Temples are located in the state of \_\_\_\_\_.

Difficulty : Moderate

Average Time : 39 Seconds

### Options :

1. Andhra Pradesh
2. Uttarakhand
3. Uttar Pradesh
4. Madhya Pradesh

### Solution :

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

Khajuraho Temples	The Khajuraho Temples are located in Chhatarpur district, Madhya Pradesh.
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- It has Rock paintings, Buddhist Stupas, and Temples.
- These temples were built by the Chandella ruler between AD 900 and 1130.
- The western group of temples comprising of the Lakshmana Temple, KandariyaMahadeo Temple, Devi Jagadambi Temple, etc.
- The Eastern Group of Temples includes the Parasvanath Temple, Ghantai Temple, Adinath Temple, Hanuman Temple, etc.

Madhya Pradesh  
Capital

Bhopal

**Question 78 :**

Who became the first Indian golfer to win on the 'Ladies European Tour' in 2016?

Difficulty : Moderate

Average Time : 64 Seconds

**Options :**

1. Diksha Dagar
2. Vani Kapoor
3. Gursimar Badwal
4. Aditi Ashok

**Solution :**

The correct answer is option 4 i.e. Aditi Ashok

The first Indian to win on the Ladies European Tour in 2016

Aditi Ashok



Who is she?	<p>She is an Indian professional golfer who took part in the 2016 Summer Olympics and plays on the Ladies European Tour and LPGA Tour.</p> <p>She had also won 2011 Hero Professional Tour Leg 1, Hero Professional Tour Leg 3 (both as an amateur).</p>
	DikshaDagar became the second Indian woman golfer to win the title.
Ladies European Tour 2016	The 2016 Ladies European Tour was a series of golf tournaments for elite female golfers from around the world, which took place from February through December 2016. The tournaments were sanctioned by the Ladies European Tour (LET).

**Question 79 :**

The highest railway station in India is located in the state of \_\_\_\_\_.

**Difficulty : Moderate****Average Time : 146 Seconds****Options :**

1. Sikkim
2. Uttar Pradesh
3. West Bengal
4. Nagaland

**Solution :**

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

The highest railway station in India is located in ...	<b>Ghum railway station of the Darjeeling, West Bengal Himalayan Railway is the highest railway station in India.</b>
Ghum railway station	<b>Ghum (also spelled Ghoom)</b> is a small hilly locality in the Darjeeling Himalayan hill region of West Bengal, India.  It is situated at an altitude of 2,258 meters (7,407 ft).  India's highest railway station and the world's 14th highest, Ghum is a rather small railway station. Close to Darjeeling, it lies on one of the most beautiful railway tracks in the world.

**Question 80 :**

Which one of the following was NOT a condition laid down in the Gandhi-Irwin Pact?

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

1. **Withdrawal of tax on khadi production.**
2. **Removal of salt tax; allowing to produce, trade and sell legally.**
3. **The Indian National Congress should stop the civil disobedience movement.**
4. **Participation in the Round Table Conference by the Indian National Congress.**

**Solution :**

The correct answer is **option 1** i.e. **Withdrawal of tax on khadi production.**

Gandhi-Irwin Pact	Gandhi-Irwin Pact was signed in 1931 in order to achieve negotiations between Gandhiji and the Britishers.
What is Gandhi-Irwin Pact?	<ul style="list-style-type: none"><li>• It marked the end of a period of civil disobedience (Satyagraha) in India against British rule that Gandhi and his followers had initiated with the Salt March (March–April 1930).</li><li>• Gandhiji agreed to participate in a Round Table Conference in England.</li><li>• The government agreed to release all the political prisoners.</li></ul>

**Question 81 :**

Who amongst the following succeeded the Mughal throne in the year 1556?

Difficulty : Moderate

Average Time : 69 Seconds

**Options :**

1. Shah Jahan
2. Jahangir
3. Sher Shah Suri
4. Akbar

**Solution :**

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

- **Akbar** succeeded the Mughal throne in 1556.
- Humayun died in 1556 and Akbar was next to succeed the Mughal throne the same year.

Akbar was born in exile and was only 13 years old when his father died.

- With an aim to preserve the unity of his empire, Akbar adopted programs that won the loyalty of the non-muslim populations of his realm.
- Akbar (Abu-Fal Jalal ud-Din Muhammad Akbar, 15 October 1542 – 1605) was the third Mughal emperor. He was born in Umarkot, (now in Pakistan).

**Question 82 :**

\_\_\_\_\_ is the oldest golf course outside the United Kingdom.

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

1. Classic Golf Resort, New Delhi
2. Tollygunge Golf Club, Kolkata
3. Royal Calcutta Golf Club, Kolkata
4. Royal Springs Golf Course, Srinagar

**Solution :**

Which is the oldest golf course outside the United Kingdom?	<b>Royal Calcutta Golf Club, Kolkata</b>
Royal Calcutta Golf Club, Kolkata	<ul style="list-style-type: none"><li>• The Royal Calcutta Golf Club is the oldest golf club outside the United Kingdom and is the second-oldest outside Scotland.</li><li>• It was established in 1829. By the turn of the 19th Century, there were already a dozen golf clubs in India.</li></ul>

**Question 83 :**

Which of the following is NOT a symptom of Wilson's disease?

**Difficulty : Moderate****Average Time : 98 Seconds****Options :**

1. Fluid build-up in the legs or abdomen

Night blindness

3. Problems with speech, swallowing or physical coordination

4. Uncontrolled movements or muscle stiffness

**Solution :**

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

- **Night blindness** is not a symptom of Wilson's disease but a symptom of underlying disease such as a retina problem.
- Wilson's disease, also known as hepatolenticular degeneration, is a rare genetic disorder that causes copper poisoning in the body.
- Its major symptoms are:
  - Problems with speech
  - Swallowing or physical coordination
  - Uncontrolled movements or muscle stiffness
  - Fluid build-up in the legs or abdomen etc.

**Question 84 :**

The National Board for Micro, Small and Medium Enterprises meets once every \_\_\_\_\_ months in a year.

Difficulty : Moderate

Average Time : 60 Seconds

**Options :**

1. 1.6

2. 2.3

3. 3.2

4. 4.9

**Solution :**

The National Board for Micro, Small and Medium Enterprises meets	<b>once every 1.6 months in a year</b>
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What is 'The National Board for Micro, Small and Medium Enterprises'?

- The National Board for Micro, Small and Medium Enterprises (NBMSME) was established by the Government under the Micro, Small and Medium Enterprises Development Act, 2006.
- The NBMSME was established for the first time on 15th May 2007 consisting of 47 members
- The Minister in-charge of Ministry of MSME is ex-officio Chairman of the National Board.

### Question 85 :

Rickets is a disease associated with the deficiency of \_\_\_\_\_.

Difficulty : Moderate

Average Time : 118 Seconds

### Options :

1. Vitamin A
2. Vitamin B
3. Vitamin C
4. Vitamin D

### Solution :

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

- **Vitamin D** is a nutrient present in some foods that is needed for health and maintaining strong bones. It does so by helping the body absorb calcium (one of bone's main building blocks) from food and supplements.
- Rickets is caused due to the deficiency of Vitamin D.
- Rickets leads to softening and weakening of the bones and is seen most commonly in children between 6-24 months of age.
- The different types of rickets are- hypophosphatemic rickets, renal or kidney rickets, and most commonly, nutritional rickets.

Disease	Caused by the deficiency of
Night Blindness	Vitamin A
Beriberi	Vitamin B
Scurvy	Vitamin C

**Question 86 :**

Select the most appropriate word to fill in the blank. The National war memorial is \_\_\_\_\_ to our Armed Forces.

Difficulty : Moderate

Average Time : 76 Seconds

**Options :**

1. devoted
2. dedicated
3. inscribed
4. honoured

**Solution :**

Word meaning	Usage	Synonym	Antonym
<b>Dedicated:</b> 'devoted to a task or purpose'.	It's refreshing to meet someone who is so dedicated to their work.  Hence, ' <b>dedicated</b> ' is the correct answer.	Adhesion, allegiance, attachment, commitment.	Indifferent, apathetic.

**Question 87 :**

Select the wrongly spelt word.

Difficulty : Moderate

Average Time : 52 Seconds

**Options :**

hasitate

2. hazard
3. hazy
4. hasty

**Solution :**

Word meaning	Usage	Synonym	Antonym
<b>Hesitate:</b> pause in indecision before saying or doing something.	She hesitated, unsure of what to say.  Hence, ' <b>Hesitate</b> ' is the correct answer.	Pause, delay, wait, hangback.	Be resolute, be certain.

**Question 88 :**

Given below are four jumbled sentences. Select the option that gives their correct order. A. What was supposed to be a holiday of a lifetime turned into a dangerous experience for 1,300 passengers on a cruise ship off the coast of Norway. B. The Norwegian Government decided to evacuate the passengers with the help of helicopters. C. The ship broke down in rough seas and high-speed winds caused it to rock heavily from side to side. D. From the first 371 evacuated passengers, 17 had to be taken to hospital.

**Difficulty :** Moderate

**Average Time :** 72 Seconds

**Options :**

1. CABD
2. ABCD
3. CBDA
4. ACBD

**Solution :**

Concept/Grammar rules	Application	Vocabulary

<p>The first sentence always introduces a topic and is independent in its meaning.</p>	<p>The statement A should be the first sentence as it introduces the theme of the passage i.e. '<b>dangerous experience</b>'.</p> <p>After A, statement C should be the second sentence, as it throws light how it turned into a dangerous experience.</p> <p>The two remaining sentences must have a logical sequence to them. As we can see, sentence B mentions the evacuation of passengers and sentence D gives further details of the evacuated passengers.</p> <p><b>Hence, 'ACBD' is the correct answer.</b></p>	<p><b>Evacuate:</b> remove (someone) from a place of danger to a safe place.</p>
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### Question 89 :

Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select 'No improvement'. They didn't see you, is it?

Difficulty : Moderate

Average Time : 77 Seconds

### Options :

1. have they
2. No improvement
3. wasn't it
4. did they

### Solution :

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

### Question tags turn a statement into a question.

- If the main clause has an auxiliary verb in it, we use the same verb in the tag question.
- If the statement is negative, the tag must be positive. If the statement is positive the tag must be negative.
- Here, the question tag is '**is it**' that is erroneous.
- '**Did they**' is the correct question tag that should be used here.
- As we always use the same auxiliary verb in the question tag which is used in the main statement.
- Hence, '**Did they**' is the correct answer.



The correct sentence will be-

**They didn't see you, did they?**

**Question 90 :**

In the sentence identify the segment which contains the grammatical error. We will rest for sometime when we will reach the top.

**Difficulty : Moderate**

**Average Time : 71 Seconds**

**Options :**

1. when we will reach
2. for sometime
3. the top
4. We will rest

**Solution :**

The correct answer is **option 1 i.e. when we will reach.**

1. The error lies in part 1 of the statement because of the wrong use of "**Tense**".
2. We need to replace "**Will reach**" with "**Reach**" for making the statement grammatically correct.

**Grammatical concept:-**

- The given sentence is an example of the first conditional sentence. We use the first conditional sentence structure when we want to talk about possibilities in the present or in the future. The first conditional has the present simple after '**if/when**' and the simple future tense in the other clause.
- '**When**' is used as a conjunction when referring to something in the future, we always use the present perfect or simple present tense in the when clause, and not will/shall.
- Hence, '**when we reach**' is the correct answer.

The correct sentence will be-

**We will rest for sometime when we reach the top.**

**Question 91 :**

Select the most appropriate meaning of the given idiom. out of the woods.

**Difficulty : Moderate**

**Average Time : 83 Seconds**

**Options :**

no longer in sight

- no longer young
- no longer in trouble
- no longer famous

**Solution :**

Idiom meaning	Usage
<b>Out of the woods:</b> No longer in danger or dealing with a particular difficulty, though not entirely resolved. Usually used in the negative.	Her surgery went as well as we could have hoped, but she's not out of the woods yet.

**Question 92 :**

Select the ANTONYM of the given word. GATHER

Difficulty : Moderate

Average Time : 49 Seconds

**Options :**

- distract
- dispute
- display
- disperse

**Solution :**

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

**The meaning of the given words is:**

- Gather:** Collect or bring things/people together in one place.
- Disperse:** Scatter or spread out in different directions.
- Display:** Present or show something publicly or prominently.
- Dispute:** Engage in a disagreement or conflict.
- Distract:** Divert someone's attention or focus away from something.

**Question 93 :**

Select the ANTONYM of the given word. COMIC

Difficulty : Moderate

Average Time : 49 Seconds

**Options :**

1. amusing
2. tragic
3. awkward
4. absurd

**Solution :**

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

**COMIC:** causing or meant to cause laughter. The drama has some comic moments.

**Tragic:** causing or characterized by extreme distress or sorrow.

**Synonym:** Clown, comedian, humorist, stooge.

**Antonym:** Serious, tragic.

**Question 94 :**

Select the SYNONYM of the given word. DRAG

**Difficulty :** Moderate

**Average Time :** 41 Seconds

**Options :**

1. rest
2. push
3. rush
4. pull

**Solution :**

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

Word meaning	Usage	Synonym	Antonym

<p><b>DRAG:</b> pull (someone or something) along forcefully, roughly, or with difficulty.</p> <p><b>Pull:</b> exert force on (someone or something) so as to cause movement towards oneself.</p>	<p>He pulled her up and dragged her along to where the doctor was standing,</p>	<p>Tug, yank, stretch, take out.</p>	<p>Fix, plant, push, sew, deter, repel, repulse.</p>
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**Question 95 :**

Select the correct passive form of the given sentence. Show these visitors the butterfly farm.

Difficulty : Moderate

Average Time : 61 Seconds

**Options :**

1. Let these visitors be shown the butterfly farm.
2. Let these visitors be showing the butterfly farm.
3. These visitors should be showed the butterfly farm.
4. You must show these visitors the butterfly farm.

**Solution :**

<p><b>Concept/Grammar rules</b></p>	<p><b>Application</b></p>
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<p><b>Active:</b></p> <p>Verb + object</p> <p><b>Passive:</b></p> <ol style="list-style-type: none"> <li>Let + object + be + past participle.</li> <li>You are requested/ordered/suggested + to + verb (1st form) + object</li> </ol>	<p>Passive voice of sentences containing command or order generally start with '<b>Let</b>'.</p> <p>Ex: Call the attendant. (Active Voice)</p> <p>Let the attendant be called. (Passive Voice)</p> <p>Hence, '<b>Let these visitors be shown the butterfly farm</b>' is the correct answer.</p>
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**Question 96 :**

Select the most appropriate word to fill in the blank. A painting competition was held in the colony and Kavya was \_\_\_\_\_ winner in the age group 3-5 years.

Difficulty : Moderate

Average Time : 71 Seconds

**Options :**

- described
- supposed
- publicized
- declared

**Solution :**

Word meaning	Usage	Synonym	Antonym
<b>Declared:</b> 'say something in a solemn and emphatic manner'.	"We shall be obliged to look into the matter," declared the dean.	Announced, stated, affirmed, self-confessed.	Unacknowledged, undeclared, implicit, inexplicit, unavowed.

**Question 97 :**

Select the word which means the same as the group of words given. A person appointed by two parties to resolve a dispute



Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. Broker
2. Auditor
3. Valuer
4. Arbitrator

Solution :

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

1. **Arbitrator**: an independent person or body officially appointed to settle a dispute.
2. **Broker**: a person who buys and sells things, for example, shares in a business, for other people.
3. **Auditor**: a person whose job is to examine a company's financial records.
4. **Valuer**: a person whose job is to estimate the value of something that is to be purchased.

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

Question 98 :

Given below are four jumbled sentences. Select the option that gives their correct order. A. It is one of the highly developed countries of the world. B. It stretches from the Atlantic Ocean in the east to the Pacific Ocean in the west. C. The USA consists of 50 states including Alaska and Hawaii. D. The United States of America (USA) is the 4th largest country in the world.

Difficulty : Moderate

Average Time : 71 Seconds

Options :

1. ADCB
2. CBDA
3. CBAD
4. DBCA

Solution :

Concept/Grammar rules	Application
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The first sentence always introduces a topic and is independent in its meaning.

The statement D should be the first sentence as it is an independent sentence and it introduces the theme of the passage i.e. 'USA'.

Sentence B should follow sentence D as it tells about the demographic of the USA. Hence statement B should be the second sentence.

The two remaining sentences must have a logical sequence to them.

Statement A should be preceded by statement C because A gives the reason for C.

Therefore, statement C should be the third sentence. And statement A will come after C.

**Hence, 'DBCA' is the correct answer.**

**Question 99 :**

Select the correct active form of the given sentence. The injured were being moved to the hospital by the police.

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

1. The injured was moving the police to the hospital.
2. The police has been moving the injured to the hospital.
3. The police moved the injured to the hospital.
4. The police were moving the injured to the hospital.

**Solution :****Concept/Grammar rules****Application**

The given sentence is in passive voice. Its tense is past continuous. The structures for active/passive voices are:

**Active:** Subject + was/were + verb (ing) + object...

**Passive:** Object + was/were + being + verb (IIIrd form) + by + subject...

As per the rule, in order to convert it to active voice, we first interchange the subject and object i.e. '**the injured**' and '**the police**'. Then we use the past continuous tense i.e. '**was moving**'.

Hence, '**The police was removing the injured to the hospital**' is the correct answer.

### Question 100 :

Select the synonym of the given word. ENGULF

Difficulty : Moderate

Average Time : 76 Seconds

### Options :

1. encroach
2. enshrine
3. envelop
4. entangle

### Solution :

Word meaning	Usage	Synonym	Antonym
<p><b>ENGULF:</b> (of a natural force) sweep over (something) so as to surround or cover it completely.</p> <p><b>Envelop:</b> wrap up, cover, or surround completely.</p>	<p>It was Sunday morning, and the holy stillness of the day engulfed our world.</p>	<p>Bury, consume, encompass, envelop, immerse.</p>	<p>Dry, neglect, uncover, underwhelm.</p>



# Ssc Cgl Tier I Previous Year Question Paper Analysis

The analysis of Ssc Cgl Tier I Previous Year Question Paper held on 2019-06-06 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 Logical Reasoning, 25 questions were asked from General Awareness, 25 questions were asked from English Language and 25 questions were asked from Quantitative Aptitude
4. 46 questions should have been skipped if you were short of time.

# Ssc Cgl Tier I Previous Year Question Paper Topic Wise Weightage

## Logical Reasoning

1. Coding Decoding - 3
2. Mirror Image - 1
3. Analogy - 2
4. Classification - 2
5. Missing Characters - 4
6. Syllogism - 3
7. Venn Diagrams - 2
8. Figure Based - 3
9. Paper-cutting, Folding, Punching - 1
10. Series - 1
11. Puzzle - 1
12. Mathematical Reasoning - 1
13. Cubes And Dice - 1

## General Awareness

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

## English Language

1. Comprehensive - 1
2. Voice - 23
3. Antonym - 2

## Quantitative Aptitude

1. Simplification - 1
2. Average - 1
3. Percentage - 3
4. Data Interpretation - 1
5. Time And Work - 1
6. Time Speed And Distance - 1
7. Interest - 1
8. Ratios And Proportion - 2
9. Geometry - 5
10. Trigonometry - 3
11. Algebra - 3
12. Number System - 1
13. Profit And Loss - 1

## Ssc Cgl Tier I Previous Year Question Paper Tips and Tricks





- 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 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.



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