

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 2023-10-27 in the Morning Shift 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 :

A constable Ram is 225 m behind a thief Somesh. Ram runs 50 m and Somesh runs 30 m in a minute. At what time will the constable Ram catch the thief Somesh?

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. 10 minutes 16 seconds
2. 15 minutes 11 seconds
3. 16 minutes 10 seconds
4. 11 minutes 15 seconds

Solution :

The correct answer is **Option 4** i.e. **11 minutes 15 seconds**.

A constable Ram is 225 m behind a thief Somesh

It means that the difference between Ram and Somesh is 225 m

Speed of Ram = 50 m/min

Speed of Somesh = 30 m/min

Relative speed = $50 - 30 = 20$ m/min

Time = Distance/Speed



Time = $225/20 = 45/4 = 11\frac{1}{4}$ = 11 minutes and 15 seconds

Question 2 :

A table was bought for ₹13,000 and sold for ₹13,200. Find the gain or loss in terms of money.

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. Gain ₹1200
2. Loss ₹1200
3. Gain ₹1100
4. Loss ₹1150

Solution :

The correct answer is **Option 1** i.e. **Gain ₹1200**.

Given that

C.P. of the article = Rs. 3000

S.P. of the article = Rs. 3200

Formula used

Profit = S.P. - C.P.

Loss = C.P. - S.P.

Calculation

S.P. > C.P.

Profit = 3200 - 3000 = Rs. 200

Question 3 :

Sarthak and Mohan have been assigned a work to design a room for a ceremony, Sarthak can design the entire room in 12 days, while Mohan can design the room in 15 days. In how many days will the work be completed if they work together? (Rounded off to 2 decimal places).

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. 5.67



6.67

3. 7.33

4. 6.00

Solution :

The correct answer is **Option 2** i.e. **6.67**.

Sarthak can design the entire room in 12 days, while Mohan can design the room in 15 days

$$\text{L.C.M}(12 \text{ and } 15) = 60$$

$$\text{The efficiency of Sarthak} = 60/12 = 5 \text{ units}$$

$$\text{The efficiency of Mohan} = 60/15 = 4 \text{ units}$$

$$\text{Time taken by both} = 60/(5 + 4) = 60/9 = 6.67 \text{ days}$$

Question 4 :

What is the value of the given expression? $(a + b + c)^2 - a^2 - b^2 - c^2$

Difficulty : Moderate**Average Time : 45 Seconds****Options :**1. $2abc$ 2. $2(ab + bc + ca)$ 3. $2(a + b + c)$ 4. $2ab + bc - 2ca$ **Solution :**

The correct answer is **Option 1** i.e. **$2(ab + bc + ca)$** .

$$(a + b + c)^2 - a^2 - b^2 - c^2$$

Formulae:

$$(a + b + c)^2 = a^2 + b^2 + c^2 + 2(ab + bc + ca)$$

Now according to the question

$$(a + b + c)^2 = a^2 + b^2 + c^2 + 2(ab + bc + ca) - a^2 - b^2 - c^2$$

$$(a + b + c)^2 = 2(ab + bc + ca)$$

**Question 5 :**

Select the option that is related to the third term in the same way as the second term is related to the first term and the sixth term is related to the fifth term. $6 : 646 :: 5 : ? :: 4 : 190$

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

1. 373
2. 377
3. 337
4. 376

Solution :

The correct answer is **Option 1** i.e. **373**.

$$6 : 646 :: 5 : ? :: 4 : 190$$

The logic followed here is:

$$6^3 \times 3 - 2 = 216 \times 3 - 2 = 648 - 2 = 646$$

$$4^3 \times 3 - 2 = 64 \times 3 - 2 = 192 - 2 = 190$$

Similarly,

$$5^3 \times 3 - 2 = 125 \times 3 - 2 = 375 - 2 = 373$$

Hence, the correct answer is **373**.

Question 6 :

Select the number from among the given options that can replace the Question mark (?) in the following series. 80, 73, 64, 53, 40, ?

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

1. 19
2. 25
3. 33
4. 23

**Solution :**

The correct answer is **option 2** i.e. **25**.

- **The logic is:**

$$80-7=73$$

$$73-9=64$$

$$64-11=53$$

$$53-13=40$$

$$40-15=25.$$

- Odd numbers starting from 7 are subtracted from each number of the series.

Question 7 :

If $a \cot + b \operatorname{cosec} = p$ and $b \cot + a \operatorname{cosec} = q$ then $p^2 - q^2$ is equal to

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. a^2+b^2

2. a^2-b^2

3. b^2-a^2

4. $b-a$

Solution :

The correct answer is **Option 3** i.e. $b^2 - a^2$.

Given:

$$a \cot + b \operatorname{cosec} = p,$$

$$b \cot + a \operatorname{cosec} = q$$

Squaring both the equations and then subtracting the second from the first, we have

$$(p)^2 - (q)^2 = (a \cot + b \operatorname{cosec})^2 - (b \cot + a \operatorname{cosec})^2$$

$$(a^2 \cot^2 + b^2 \operatorname{cosec}^2 + 2 a \cot b \operatorname{cosec}) - (b^2 \cot^2 + a^2 \operatorname{cosec}^2 + 2b \cot a \operatorname{cosec})$$

$$a^2 \cot^2 + b^2 \operatorname{cosec}^2 + 2 a \cot b \operatorname{cosec} - b^2 \cot^2 - a^2 \operatorname{cosec}^2 - 2b \cot a \operatorname{cosec}$$

$$a^2 \cot^2 + b^2 \operatorname{cosec}^2 - b^2 \cot^2 - a^2 \operatorname{cosec}^2$$

$$-a^2(\operatorname{cosec}^2 - \cot^2) + b^2(\operatorname{cosec}^2 - \cot^2) = p^2 - q^2$$

$$-a^2 + b^2 = p^2 - q^2$$

$$p^2 - q^2 = b^2 - a^2$$

Question 8 :

Looking at a picture of a woman Vineeta said, "She is the wife of my father's brother's father." How is the woman in the picture related to Vineeta?

Difficulty : Moderate

Average Time : 110 Seconds

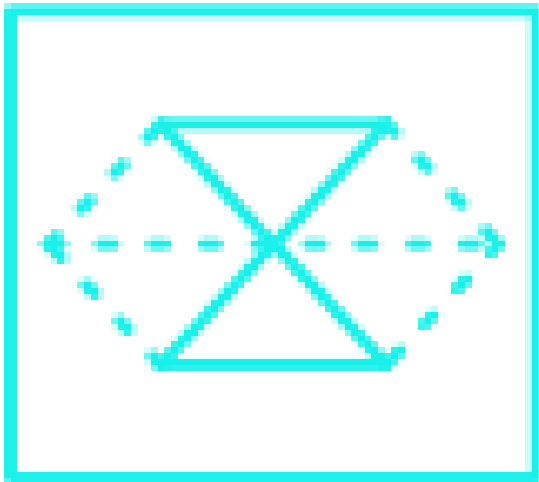
Options :

1. Father's sister
2. Mother-in-law
3. Mother
4. Father's mother

Solution :

The correct answer is **option 4** i.e. **Father's mother**.

- The woman is the wife of Vineeta's father's brother's father, i.e. **she is Vineeta's father's mother**.

**Question 9 :**

Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster. MGX : VPG :: TZC : CIL :: HPX : ?

Difficulty : Moderate

Average Time : 53 Seconds

Options :

PXF

2. QZG

3. RZG

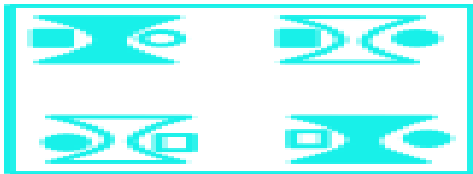
4. QYG

Solution :

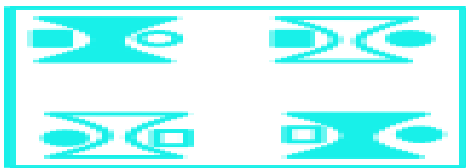
The correct answer is **Option 4** i.e. **QYG**.

The logic followed here is:

MGX : VPG

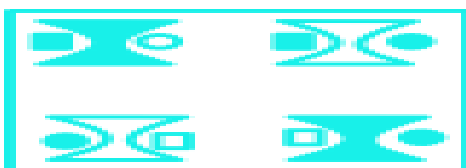


TZC : CIL



Similarly,

HPX : ?



Hence, the correct answer is **QYG**.

Question 10 :

Which option represents the correct order of the given words as they would appear in an English dictionary? 1.Greed 2.Green 3.Grown 4.Grip 5.Granite

Difficulty : Moderate

Average Time : 61 Seconds

Options :

5, 2, 1, 4, 3

2. 5, 4, 1, 2, 3

3. 5, 1, 2, 4, 3

4. 5, 1, 4, 3, 2

Solution :

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

5. Granite

1. Greed

2. Green

4. Grip

3. Grown

Question 11 :

Select the set in which the numbers are related in the same way as are the numbers of the following sets. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13-Operations on 13 such as adding/ subtracting multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed). $(\{\{\frac{7}{9}\}, (\frac{21}{39}), (\frac{3}{5}), (\frac{13}{28})\})$

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. $(\{\{\frac{11}{13}\}, (\frac{47}{55})\})$

2. $(\{\{\frac{9}{13}\}, (\frac{37}{55})\})$

3. $(\{\{\frac{9}{11}\}, (\frac{32}{37})\})$

4. $(\{\{\frac{17}{19}\}, (\frac{36}{77})\})$

Solution :

The correct answer is **Option 1** i.e. $(\{\{\frac{11}{13}\}, (\frac{47}{55})\})$

The logic followed here is:

Numerator $\times 4 + 3 =$ Numerator of next fraction

• Denominator $\times 4 + 3 =$ Denominator of next fraction

$7 \times 4 + 3 = 31; 9 \times 4 + 3 = 39$

$3 \times 4 + 3 = 15; 5 \times 4 + 3 = 23$

Similarly,

$11 \times 4 + 3 = 47; 14 \times 4 + 3 = 55$

Hence, the correct answer is $(\frac{11}{13}, \frac{47}{55})$

Question 12 :

Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.

Difficulty : Moderate

Average Time : 58 Seconds

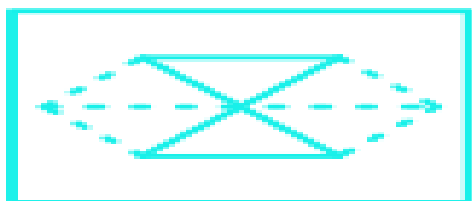
Options :

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

Solution :

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

In mirror image, the left side of the original image becomes right and right becomes left.



Question 13 :

Each vowel in the word "ETHICAL" is changed to the following letter in the English alphabetical series and each consonant is changed to the previous letter in the English alphabetical series. In the newly formed word, how many alphabets are there in the English alphabetical series between the alphabet which is 3rd from the left and 1st from the right?

Difficulty : Moderate

Average Time : 82 Seconds

Options :

Four

2. Three

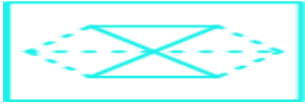
3. Two

4. Five

Solution :

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

- In the newly formed word, alphabet which is third from the left is G, and 1st from the right is K.
- **There are three letters between G and K.**

**Question 14 :**

Select the set in which the numbers are related in the same way as are the numbers of the given set. (NOTE: Operations should be performed on the whole numbers, without breaking down the number into its constituent digits. E.g. 13 - Operations on 13 such as adding/Subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.) (312, 24, 13) (645, 43, 15)

Difficulty : Moderate

Average Time : 62 Seconds

Options :

1. (347,27,12)
2. (347,22,17)
3. (374,17,12)
4. (374,22,17)

Solution :

The correct answer is **Option 4** i.e. **(374,22,17)**.

The logic followed here is:

The 2nd number $\div 2 \times$ third number $\times 2 =$ The first number

(312, 24, 13)

$$24 \div 2 \times 13 \times 2 = 12 \times 13 \times 2 = 312$$



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(645, 43, 15)

$$43 \div 2 \times 15 \times 2 = 645$$

Similarly

(374, 22, 17)

$$22 \div 2 \times 17 \times 2 = 11 \times 17 \times 2 = 374$$

Hence, the correct answer is **(374,22,17)**.

Question 15 :

'P@Q' means 'P is the brother of Q' 'P & Q' means 'P is the father of Q' 'P # Q' means 'P is the daughter of Q' If 'A # B @ C&D# E', then how is B related to E?

Difficulty : Moderate

Average Time : 58 Seconds

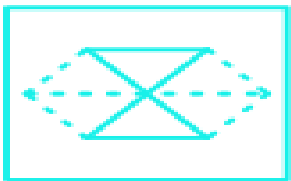
Options :

1. Brother's daughter
2. Brother's wife
3. Husband's brother
4. Brother

Solution :

The correct answer is **option 3** i.e. **Husband's brother**.

- According to the given conditions, **B** is the brother of **E's** husband.



Question 16 :

In a certain code language, 'PLAY' is coded as RICV and 'TREE' is coded as VOGB. How will 'BOOK' be coded in the same language?

Difficulty : Moderate

Average Time : 49 Seconds

Options :



1. HLQD

2. DQQH

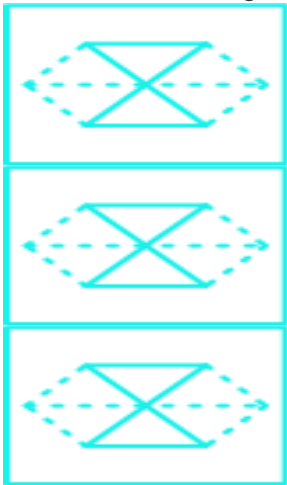
3. DLQH

4. DLLH

Solution :

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

- In the codes of the given word, the pattern followed is **+2, -3, +2, -3**.



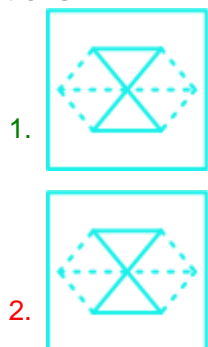
Question 17 :

Select the figure from among the given options that can replace the Question mark (?) in the following series.

Difficulty : Moderate

Average Time : 56 Seconds

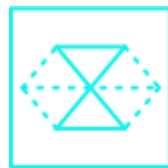
Options :



3.

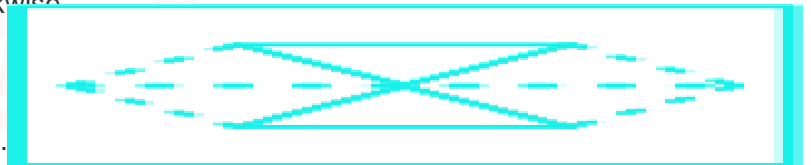


Solution :



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

- The patterns on the four corners are rotating clockwise.
- The pattern at the centre is alternatively repeating.



Question 18 :

The second number in the given number-pairs is obtained by performing certain mathematical operation(s) on the first number. The same operation(s) is/are followed in all the number-pairs, except one. Find that odd number-pair. (NOTE: The relation should be found without breaking down the numbers into its constituent digits)

Difficulty : Moderate

Average Time : 80 Seconds

Options :

1. 225: 169
2. 361: 400
3. 529: 576
4. 441 : 484

Solution :

The correct answer is **option 1** i.e. **225: 169**.

- The numbers in sets 2, 3 and 4 are squares of consecutive numbers.



But for set 1, the numbers are squares of 15 and 13, which are not consecutive.

Question 19 :

Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation.

$$5 * 23 * 24 * 4 * 10 * 111$$

Difficulty : Moderate

Average Time : 40 Seconds

Options :

1. +, ÷, -, ×, =

2. -, ×, +, +, =

3. ×, +, ÷, -, =

4. +, -, ÷, ×, =

Solution :

The correct answer is **Option 3** i.e. ×, +, ÷, -, =.

Given equation.

$$5 * 23 * 24 * 4 * 10 * 111$$

Option 1: +, ÷, -, ×, =

$$5 + 23 \div 24 - 4 \times 10 = 111$$

$$-334.04 = 111 \text{ (Not equal)}$$

Option 2: -, ×, +, +, =

$$5 - 23 \times 24 + 4 + 10 = 111$$

$$-533 = 111 \text{ (Not equal)}$$

Option 3: ×, +, ÷, -, =

$$5 \times 23 + 24 \div 4 - 10 = 111$$

$$115 + 6 - 10 = 111$$

$$121 - 10 = 111$$

$$111 = 111$$

So, there is no need to check further options.

Hence, the correct answer is \times , $+$, \div , $-$, $=$.

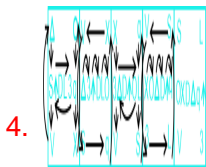
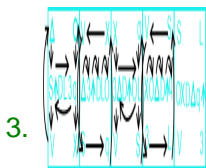
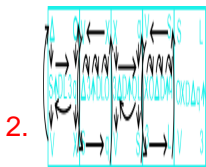
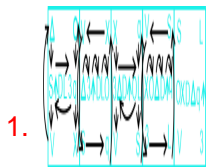
Question 20 :

Select the figure that will replace the Question mark (?) in the following figure series.

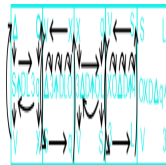
Difficulty : Moderate

Average Time : 61 Seconds

Options :



Solution :



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

The pattern followed here is:

In first figure to 2nd figure and 3rd figure to 4th figure:

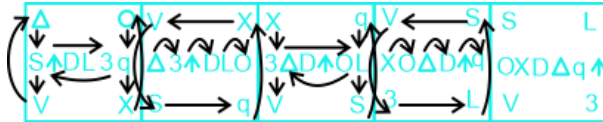
- Top-left shape is forwarding in bottom-left direction and top-right shape is forwarding in the bottom-right.

Bottom-left and bottom-right shapes are shifting top-left and top-right corners.

- Middle shapes are shifting in a forwarding direction.

In 2nd figure to 3rd figure and 4th figure to 5th figure:

- All four corner shapes are shifting in an anticlockwise direction.
- Two-two pair middle shapes are interchanging their positions.



Hence, the correct answer is **Option 3**.

Question 21 :

Which of the following terms will replace the Question mark (?) in the given series? MGB, NIE, OKH, PMK, ?

Difficulty : Moderate

Average Time : 92 Seconds

Options :

1. QON
2. PQJ
3. OQN
4. OPK

Solution :

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

- In the given series, 1, 2 and 3 are added to the first, second and third position letters respectively.
- Hence, the answer is QON.



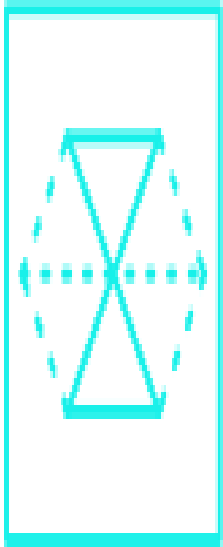
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Question 22 :

Select the correct combination of mathematical signs that can sequentially replace the * signs and balance the given equation. $32 * 42 * 7 * 7 * 17 = 202$

Difficulty : Moderate

Average Time : 48 Seconds

Options :

1. $\times \div - - +$
2. $\times - \div +$
3. $\div + \times -$
4. $+ \times \div -$

Solution :

The correct answer is **Option 1** i.e. $\times + - +$.

Given equation:

$$32 * 42 * 7 * 7 * 17 = 202$$

Option 1: $\times \div - +$

$$32 \times 42 \div 7 - 7 + 17 = 202$$

$$32 \times 6 - 7 + 17 = 202$$

$$192 - 7 + 17 = 202$$



202 = 202

So, there is no need to check further options.

Hence, the correct answer is $\times \div - +$.

Question 23 :

Which of the following numbers will replace the Question mark (?) in the given series? 82, 79, 71, ?, 60, 57, 49

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. 61
2. 63
3. 68
4. 62

Solution :

The correct answer is **option 3** i.e. **68**.

- In the given series, 3 and 8 are alternatively subtracted from the numbers of the series.
- $82-3=79$
 $79-8=71$
 $71-3=68$
 $68-8=60$
 $60-3=57$
 $57-8=49$
- So, the answer will be **68**.

Question 24 :

Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.) Hands Mittens :: Feet: ?

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. Shrug
2. Scarf



Socks

4. Jacket

Solution :

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

- The relationship between "hands" and "mittens" is that mittens are worn on hands.
- Similarly, the relationship between "feet" and "socks" is that socks are worn on feet.

Question 25 :

Three 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: All computers are laptops. All laptops are mobiles. Some mobiles are tablets. Conclusions: I. Some mobiles are computers. II. All computers are mobiles. III. Some computers are tablets.

Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. Only conclusions II and III follow.
2. Only conclusions I and II follow.
3. Only conclusions I and III follow.
4. All conclusions follow.

Solution :

The correct answer is **option 2** i.e. **Only conclusions I and II follow**.

- **Conclusion I follows** because if all computers are laptops, and all laptops are mobiles, then there must be some overlap between computers and mobiles, hence, some mobiles are computers.
- **Conclusion II follows** because if all computers are laptops, and all laptops are mobiles, then all computers are also mobiles.
- **Conclusion III does not follow** because while it's true that some mobiles are tablets, there's no direct relationship established between computers and tablets in the given statements.

Question 26 :

Three different positions of the same dice are shown. Find the number on the face opposite to the face showing '5'.

Difficulty : Moderate

Average Time : 65 Seconds

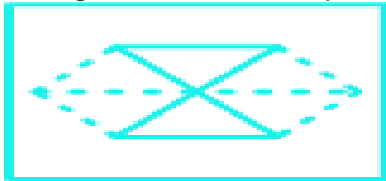
**Options :**

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

Solution :

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

- Taking dice first and third positions as they contain one common face, i.e. 1.



- Moving clockwise starting from the common face:

1 4 3
1 2 6

- Opposite pairs are:

4-2
3-6

and replace the repeating 1 with the missing number, i.e. 5.

So. opposite to 1-5.

- Hence, 1 is the opposite face to 5 and it is the correct answer.

Question 27 :

Which option represents the correct order of the given words as they would appear in an English dictionary? 1.Highway 2.History 3.Hired 4.Hierarchy 5.Hibiscus

Difficulty : Moderate

Average Time : 59 Seconds

Options :

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

Solution :

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

- The dictionary contains words in alphabetical order. The correct order would be:

5. Hibiscus
4. Hierarchy
1. Highway
3. Hired
2. History

Question 28 :

Select the option figure which is embedded in the given figure (rotation is NOT allowed).

Difficulty : Moderate

Average Time : 39 Seconds

Options :

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

Solution :

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

- Only the figure in option 3 is embedded in the given figure.



Question 29 :

Select the option that represents the letters that, when sequentially placed from left to right in the blanks below, will complete the letter series. PRKY_LDP__YOLD_RKYO_DPRK__LD

Difficulty : Moderate

Average Time : 73 Seconds

Options :

1. ORKLPOD
2. ORPKYLP
3. ORPLKYO
4. ORKPLYO

Solution :

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

- The sequence is a repetition of 7 letters.
 - For knowing the group of letters, we will check the sequence.
1. **For the first blank:** Y is followed by O, as observed from the sequence.
 2. **For the second and third blanks:** P is followed by R and R is followed by K.
 3. **For the fourth blank:** D is followed by P.
 4. **For the fifth blank:** O is followed by L.
 5. **Sixth and seventh blanks:** K is followed by Y and Y is followed by O.
- So, the correct answer will be **ORKPLYO**.

Question 30 :

Which of the answer figures is the exact mirror image of the given problem figure when the mirror is held at the right side?
Problem figure:

Difficulty : Moderate

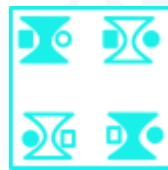
Average Time : 68 Seconds

Options :

- 1.

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

Solution :



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

- In mirror image, the left side of the original image becomes the right of the image, and vice versa.
- So, option 3 represents the correct mirror image.

Question 31 :

Consider the following statements about unemployment in India: a) Seasonal unemployment is mainly found in urban areas. b) Educated unemployed people are mainly found in rural areas of India. c) Higher cropping intensity is desirable for reducing unemployment in the rural economy. Which of the given statements is/are correct?

Difficulty : Moderate

Average Time : 73 Seconds

Options :

- 1. Only c
- 2. Only b and c
- 3. Only a and b



Only a

Solution :

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

- Seasonal unemployment:- This occurs when people are unable to find jobs for some months of the year. It's mainly found in rural areas, which are dependent on the monsoon season. For example, agricultural laborers are rarely employed throughout the year.
- Educated unemployment:- This occurs when educated people are unable to find suitable jobs. It's mainly found in urban areas, where most people are skilled but have fewer opportunities.
- Disguised unemployment:- This occurs when more people are employed than is required, due to a lack of work opportunities. It's mainly found in rural areas.
- Higher cropping intensity:- This can help reduce unemployment in rural areas by providing more continuous work for agricultural laborers.
- Hence, Statement c is only correct

Question 32 :

The folk dance of Kummi is performed by the women of which Indian state?

Difficulty : Moderate

Average Time : 75 Seconds

Options :

1. Rajasthan
2. Madhya Pradesh
3. Tamil Nadu
4. Jharkhand

Solution :

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

- The Kummi dance is a folk dance performed by women in the Indian states of Tamil Nadu and Kerala.
- The dance is popular in rural areas of Tamil Nadu.
- The dance can be simple, with rhythmic clapping or drumming, or the dancers can imitate harvesting activities.
- Kummi is also performed at family functions like marriages, childbirth etc.

**Question 33 :**

Fundamental duties were not placed in Part III of the Indian Constitution because Part III is

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. non-justiciable
2. justiciable
3. not enforceable
4. Absolute

Solution :

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

- Fundamental duties are not placed in Part III of the Indian Constitution because Part III is justiciable.
- Fundamental duties are instead included in Part IVA, which is non-justiciable and non-enforceable.
- The Constitution of India has 22 parts and 12 schedules.
- Part III of the Constitution contains fundamental rights, which are enforceable by the courts.

Question 34 :

Which of the following is NOT a function of money?

Difficulty : Moderate

Average Time : 48 Seconds

Options :

1. Medium of exchange
2. Problem in storage
3. Measure of value
4. Standard of deferred payments

Solution :

The correct answer is **option 2** i.e. **Problem in storage**.

- Problem in storage is NOT a function of money.
- Money doesnot create the problem of storage as it doesnot take space which was inherent in Barter system.
- Functions of Money includes:- Unit of account, Measure of value, Medium of exchange, and Standard of Deferred payment.
- Money doesnot deteriorate which means that it can be stored for future use.

**Question 35 :**

_____ is a naturally occurring organic compound with the formula $(C_6H_5)_2CO$.

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

1. Methcathinone
2. Propiophenone
3. Acetophenone
4. Benzophenone

Solution :

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

- Benzophenone is a naturally occurring organic compound with the formula $(C_6H_5)_2CO$.
- It is also known as diphenylmethanone.
- Benzophenone is a white, crystalline solid that is slightly soluble in water but soluble in many organic solvents.
- It is used as a flavoring agent and is found in fruits, particularly grapes.
- Benzophenone is also used in the purification of organic solvents, particularly ethers.

Question 36 :

What is the priority zone of the AMRUT (Atal Mission for Rejuvenation and Urban Transformation) mission, which was launched by the Government of India in 2015?

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

1. Water supply followed by sewerage
2. Electricity and power generation
3. Primary education for all
4. Health care of urban dwellers

Solution :

The correct answer is **option 1** i.e. **Water supply followed by sewerage**.

- The Atal Mission for Rejuvenation and Urban Transformation (AMRUT) is a mission launched by the Government of India in 2015.
- The mission's priority zone is to develop basic infrastructure in selected cities and towns.



This includes:- Water supply, Sewerage and septage management, Storm water drainage, Green spaces and parks, Non-motorized urban transport etc.

- The mission also includes urban reforms and capacity building.

Question 37 :

Who was the founder of Harijan Sevak Sangh founded in 1932?

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. Jawaharlal Nehru
2. Mahatma Gandhi
3. Jyotiba Phule
4. BR Ambedkar

Solution :

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

- Mahatma Gandhi founded the Harijan Sevak Sangh in 1932.
- The organization's mission was to eradicate untouchability and improve the lives of India's Dalit people and other oppressed castes.
- The Harijan Sevak Sangh is a volunteer organization affiliated with the Rashtriya Swayamsewak Sangh (RSS).
- The Harijan Sevak Sangh was born out of the Poona Pact between Gandhi and Babasaheb Ambedkar.

Question 38 :

Sohan Singh Bhakna and Har Dayal were primarily associated with which of the following organisations?

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. Ghadar Party
2. Kisan Sabha
3. Anushilan Samiti
4. Yugantar

Solution :

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



Sohan Singh Bhakna and Lala Har Dayal were primarily associated with the Ghadar Party.

- The Ghadar Party was formed in 1913 by Indian immigrants in the United States.
- The party's original name was the Pacific Coast Hindustan Association.
- It was established under the leadership of Har Dayal.
- The party's headquarters were located at Yugantar Ashram in San Francisco.
- The Ghadar Party was an international political movement that aimed to overthrow British rule in India.

Question 39 :

During the reign of which of the following rulers did Hiuen Tsang, a Chinese traveller, come to India?

Difficulty : Moderate

Average Time : 58 Seconds

Options :

1. Chandragupta II
2. Samudragupta
3. Ashoka
4. Harshavardhana

Solution :

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

- Hiuen Tsang, a Chinese Buddhist monk, visited India during the reign of King Harshavardhana.
- He arrived in 630 AD and stayed for 15 years, studying Buddhism in monasteries such as Kashmir, Sialkot, Kanauj, and Nalanda.
- Hiuen Tsang's goal was to obtain Buddhist scriptures and visit places of Buddhist interest.
- He is also known as the Prince of Pilgrims.

Question 40 :

What was India's rank in Paralympic 2020?

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. 21
2. 25
3. 24
4. 19

**Solution :**

The correct answer is **option 3** i.e. **24**.

- India was ranked 24th in Tokyo Paralympics 2020.
- India finishes 24th position with a record of 19 medals.
- Flag bearer for the event was Tek Chand for opening.
- It was held between 24 Aug 2021 to 5 Sept 2021.

Question 41 :

Shahid Parvez Khan, Budhaditya Mukherjee and Anoushka Shankar are associated with which of the following musical instruments?

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

1. Been
2. Santoor
3. Sitar
4. Sarod

Solution :

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

- Shahid Parvez Khan, Budhaditya Mukherjee, and Anoushka Shankar are all associated with the sitar.
- Shahid Parvez Khan is a renowned sitar player known for his expertise in playing this traditional Indian instrument.
- Pandit Budhaditya Mukherjee is considered a leading sitarist of his generation. He was born in Chattisgarh. He received his training in sitar from his father, Pandit Bimalendu Mukherjee.
- Anoushka Shankar is the daughter of Sukanya Shankar and Indian sitar maestro Ravi Shankar. She has said that the sitar is "my first language" and that she finds it inspiring to work with the instrument.

Question 42 :

Who was awarded the Mother Teresa Memorial Award for Social Justice 2021?

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

1. Sumaira Abdulali
2. Rajendra Singh

Jadav Payeng

4. Anil Prakash Joshi

Solution :

The correct answer is **option 4** i.e. **Anil Prakash Joshi**.

- Dr. Anil Prakash Joshi was awarded the Mother Teresa Memorial Award for Social Justice 2021.
- He is an environmentalist, green activist, and the founder of Himalayan Environmental Studies and Conservation Organization (HESCO).
- He was awarded Padma Shri in 2006, for his contributions to Indian society.
- He was also awarded Padma Bhushan third highest civilian award in 2020 for environmental conservation in Uttarakhand.

Question 43 :

Identify the element one that does NOT belong to Group 1 of the Modern Periodic

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. Sodium
2. Lithium
3. Hydrogen
4. Rubidium

Solution :

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

- Hydrogen is often listed in Group 1 of the modern periodic table, but it is not technically an alkali metal.
- This is because hydrogen doesn't share all the typical properties of the alkali metals.
- For example, hydrogen is a gas at room temperature, and it's a poor conductor of heat and electricity.
- Lithium, Sodium, Potassium, Rubidium, Cesium, Francium are examples of Alkali metals.

Question 44 :

One of the important institutes associated with green revolution is the Indian Agriculture Research Institute. Where is it located?

Difficulty : Moderate

Average Time : 53 Seconds

Options :



Mumbai

2. Ludhiana

3. New Delhi

4. Patna

Solution :

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

- The Indian Agricultural Research Institute (IARI) is located in New Delhi, India.
- It was established in 1905 and is also known as the Pusa Institute.
- The IARI is responsible for the research that led to the 1970s "Green Revolution" in India.
- It is administered by the Indian Council of Agricultural Research (ICAR).

Question 45 :

Which of the following Articles of the Indian Constitution provides for a bicameral Parliament of India?

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. Article 49
2. Article 59
3. Article 79
4. Article 89

Solution :

The correct answer is **option 3** i.e. **Article 79**.

- Article 79 of the Indian Constitution describes the Constitution of Parliament.
- It states that the Parliament for the Union will consist of the President and two Houses.
- These Houses are the Council of States and the House of the People.
- The idea of a Bicameral Parliament in the Constitution of India was borrowed from the British Constitution.

Question 46 :

Satyaram Reang received the Padma Shri for promoting the Hojagiri dance form. He belongs to which of the following states?

Difficulty : Moderate

Average Time : 52 Seconds

Options :



Sikkim

2. Manipur

3. Assam

4. Tripura

Solution :

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

- Satyaram Reang was from Tripura, India.
- He was a folk performer and artist who was awarded the Padma Shri in 2021 for his contributions to the Hojagiri dance.
- He has been associated with the traditional art and culture of his community since childhood.
- He began performing at age 12 and formed a band of singers and dancers.
- He has been working to protect the Hojagiri dance since he was a teenager.

Question 47 :

Which of the following pairs is INCORRECTLY matched?

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. Wuchereria - Filaria worm
2. Ancylostoma - Pinworm
3. Taenia - Tapeworm
4. Ascaris - Roundworm

Solution :

The correct answer is **option 2** i.e. **Ancylostoma - Pinworm**.

- Ancylostoma - Pinworm is incorrectly matched.
- Ancylostoma duodenale is a roundworm species that causes hookworm.
- Hookworm is a parasitic worm that infests the intestines of humans, dogs, and cats.
- Ancylostoma duodenale is also known as the Old World hookworm.
- Roundworms are also known as Nematodes.

Question 48 :

Which sodium compound is the most popular additive to various items such as sauces, salad dressings and beverages for its preservative action?



Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. Sodium bicarbonate
2. Sodium fluoride
3. Sodium hypochlorite
4. Sodium benzoate

Solution :

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

- Sodium benzoate is the most popular sodium compound used as a preservative in sauces, salad dressings, and beverages.
- It's effective in acidic foods, such as salad dressings, carbonated drinks, jams and fruit juices, and pickles.
- Sodium benzoate is used to prevent spoilage from harmful bacteria, yeast, and mold.
- It also helps maintain freshness by slowing or preventing changes in color, flavor, pH, and texture.
- Sodium preservatives are commonly used in processed foods.

Question 49 :

Mawsynram in the southern ranges of the _____ receives the highest average rainfall in the world.

Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. Shivalik
2. Khasi hills
3. Aravali
4. Nilgiri

Solution :

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

- Mawsynram in the East Khasi Hills of Meghalayareceives the highest average rainfall in the world.
- The average annual rainfall is 11,872 millimeters (467.4 inches).
- In 1985, Mawsynram received over 25.4 meters (1000 inches) of rainfall.
- Mawsynram is a cluster of villages located in the lush green forests of the Khasi Hills.

Question 50 :

The Bailadila range of Chhattisgarh is famous for which of the following minerals?

Difficulty : Moderate

Average Time : 48 Seconds

Options :

1. Copper
2. Bauxite
3. Iron ore
4. Coal

Solution :

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

- The Bailadila range of Chhattisgarh is known for its high-grade hematite iron ore.
- Hematite is a mineral form of iron oxide that is commonly found in the Bailadila hills.
- This type of iron ore has a high iron content (60% to 70%) making it valuable for steel production.
- The Bailadila mines are operated by the state-owned National Mineral Development Corporation (NMDC).
- NMDC is one of the largest iron ore producers in India.

Question 51 :

On 28 June 2021, the Supreme Court held that persons with disabilities have a right to reservation in promotion under Article 16(4) of the Constitution of India, 1950, in the case of:

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. Indra Sawhney v. Union of India
2. Rajeev Kumar Gupta v. Rangachari
3. State of Kerala v. Leesamma Joseph
4. State of Kerala v. N.M. Thomas

Solution :

The correct answer is **option 3** i.e. **State of Kerala v. Leesamma Joseph**.

- On June 28, 2021, the Supreme Court of India ruled that people with disabilities have a right to reservation in promotions under Article 16(4) of the Constitution of India, 1950. The ruling was made in the case of State of Kerala v. Leesamma Joseph.
- The Supreme Court's decision found that all disabled people are entitled to a reservation of up to 3%.



Of this, 1% is available for each of the following categories are:- Blindness or low vision, Hearing impairment, and Loco-motor disability or cerebral palsy.

- The Rights of Persons with Disabilities Act, 2016 states that the government must ensure that people with disabilities have the right to equality, life with dignity, and respect for their own integrity.

Question 52 :

In the Olympic flag, the total number of rings are

Difficulty : Moderate

Average Time : 70 Seconds

Options :

1. 3
2. 5
3. 7
4. 4

Solution :

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

- In the Olympic flag, the total number of rings are 5.
- The rings are blue, yellow, black, green, and red, and they appear on a white background.
- The rings represent the five continents: Africa, America, Asia, Australia, and Europe.
- The interlocking of the rings symbolizes the meeting of athletes from all five continents.

Question 53 :

Who is the author of Tarikh-i-Firuz Shahi?

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. Ziauddin Barani
2. Amir Khusrow
3. Al-Biruni
4. Ibn Battuta

Solution :

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



Ziauddin Barani is the author of Tarikh-i-Firuz Shahi.

- The book is a work of Indo-Persian historiography that covers the Delhi Sultanate period in India.
- Barani was a Muslim political thinker who lived during the reigns of Muhammad bin Tughlaq and Firuz Shah Tughlaq.
- He criticized the Khaljis and Tughlaqs, especially Muhammad Tughlaq for appointing "low-born" individuals to higher offices.

Question 54 :

The Desh Ke Mentor Programme launched by the Delhi government in October 2021 is for the students of classes

Difficulty : Moderate

Average Time : 54 Seconds

Options :

1. VI to XII
2. I to V
3. IX to XII
4. VI to VIII

Solution :

The correct answer is **option 3** i.e. **IX to XII**.

- The Desh Ke Mentor Programme launched by the Delhi government in October 2021 is for the students of classes IX to XII.
- It was launched with the idea of connecting students of classes IX to XII of Delhi government schools.
- It was organised with volunteers who chose to be mentors after fulfilling the eligibility criteria for the same.
- The programme is designed to facilitate young students with guidance on higher education and career choices and preparing them for various entrance exams and also teaching them on handling various pressures.

Question 55 :

The Hemis Festival is widely celebrated in which state of India?

Difficulty : Moderate

Average Time : 60 Seconds

Options :

1. Arunachala Pradesh
2. Lakshadweep
3. Assam

Ladakh

Solution :

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

- The Hemis Festival is celebrated in the union territory of Ladakh.
- The festival is a two-day celebration of the Buddhist and Tibetan communities.
- It is a celebration of the history of good over bad, and the locals of Ladakh celebrate the day.
- It is one of the most important Buddhist celebrations in Ladakh.
- People at the festival mask themselves, sing, and dance.
- The main highlight of the festival is the unique masked dance performed by Lamas.

Question 56 :

Select the most appropriate ANTONYM of the given word. Triumph

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. Defeat
2. Capture
3. Attainment
4. Succeed

Solution :

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

- "**Triumph**" refers to a great victory or success.
- "**Defeat**," on the other hand, refers to the opposite outcome, indicating a loss or failure.

Question 57 :

Select the most appropriate ANTONYM of the underlined word. Ranen feels that the notion of democracy is a farce.

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. Quotient
2. Law
3. Reality

**Portion****Solution :**

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

- In the sentence, "**notion**" refers to Ranen's perception or understanding of democracy. It represents an idea or belief he holds about the concept of democracy.
- On the other hand, "**reality**" refers to actual facts or the state of things as they exist in the real world.

Question 58 :

Select the most appropriate ANTONYM of the given word. Wax

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

1. Polish
2. Cane
3. Wail
4. Wane

Solution :

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

- "**Wax**" and "**wane**" are used together to describe the phases of the moon.
- When the moon is "waxing," it is increasing in size, moving from a new moon to a full moon.
- Conversely, when the moon is "waning," it is decreasing in size, moving from a full moon to a new moon.

Question 59 :

Select the INCORRECTLY spelt word.

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

1. Connotation
2. Pattron
3. Dearth
4. Quarry

**Solution :**

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

- The correct spelling is "PATRON."

Question 60 :

Select the most appropriate ANTONYM of the underlined word. She was upset seeing the scattered documents.

Difficulty : Moderate

Average Time : 36 Seconds

Options :

1. Perished
2. Dissipated
3. Sprinkled
4. Gathered

Solution :

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

- In the sentence, "**scattered**" is used to describe the state of the documents, indicating that they are spread out in a disorderly manner.
- The opposite of "scattered" would be "**gathered**," which implies that the documents are collected or organized neatly in one place.

Question 61 :

Select the grammatically correct sentence. A. The Supriya is the best girl in the class. B. Supriya is the best girl in the class. C. Supriya is best girl in the class. D. The Supriya is a best girl in the class.

Difficulty : Moderate

Average Time : 55 Seconds

Options :

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

Solution :

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



Option B presents a simple and grammatically correct statement where the subject "Supriya" is followed by the verb "is" and the predicate "the best girl in the class."

- Options A, C, and D contain errors such as unnecessary articles ("the" or "a") before the name "Supriya" and incorrect usage of the adjective "best."

Question 62 :

Select the most appropriate option to fill in the blank. You are the _____ to the throne and should behave in such a manner.

Difficulty : Moderate

Average Time : 54 Seconds

Options :

1. hair
2. here
3. hare
4. heir

Solution :

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

- In the context provided, the term "heir" fits well.
- An heir is someone who is legally entitled to inherit the property, title, or responsibilities of another person.

Question 63 :

Select the option that expresses the given sentence in active voice. Pudding had already been prepared by her.

Difficulty : Moderate

Average Time : 42 Seconds

Options :

1. She has already prepared pudding.
2. She had already prepared pudding.
3. She have already prepared pudding.
4. She will prepare pudding.

Solution :

The correct answer is **option 2** i.e. **She had already prepared pudding**.



In this active voice construction, "She" is the subject performing the action of preparing the pudding, and the verb "had prepared" indicates the past perfect tense.

- This restructuring maintains the same meaning as the original sentence but presents it in active voice form.

Question 64 :

Describe how you will tell your parents that Darshana was laughed at by all her classmates in active voice.

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

1. All her classmates laughed at Darshana.
2. All her classmates laughing at Darshana.
3. Darshana is laughed at by all her classmates.
4. All her classmates will been laugh at Darshana.

Solution :

The correct answer is **option 1** i.e. **All her classmates laughed at Darshana.**

- "All her classmates" is the subject performing the action, which is indicated by the verb "laughed."
- "Darshana" is the object of the action, receiving the laughter from her classmates.

Question 65 :

Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph. A. "Well, you can't make me", she said, looking back at me. B. She went on, "Well, you might try", I responded, and she laughed. C. She came in and we said hello, then she just looked at me and said, "What do you want?" McKechnie remembered. D. "Well, I want you to grin and seem pleased", I added.

Difficulty : Moderate**Average Time : 70 Seconds****Options :**

1. ACBD
2. DCBA
3. BCDA
4. CDAB

Solution :

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

Sentence C sets the scene by describing the arrival of the person being spoken to and the initial exchange.

- **Sentence D** follows, indicating the speaker's response to the question posed in sentence C.
- **Sentence A** then shows the response of the person being spoken to, rejecting the speaker's request.
- Finally, **sentence B** concludes the paragraph by narrating the continuation of the conversation, with laughter ensuing after the exchange between the two speakers.

Question 66 :

Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph. A. After examining these three approaches carefully I crossed the bridge and examined the Kedarnath pilgrim road for half a mile. B. There were three approaches to the bridge; one from the north, one from the south and between these two a well-beaten footpath from the Rudraprayag bazaar. C. Satisfied that the leopard had not crossed the river, I determined to put in operation my plan for closing the two bridges at night and thus confining the leopard to my side of the river. D. Next, I examined the footpath on which three nights previously my goat had been killed.

Difficulty : Moderate

Average Time : 85 Seconds

Options :

1. DABC
2. CDAB
3. ABCD
4. BADC

Solution :

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

- **Sentence B** sets the context by describing the three approaches to the bridge.
- **Sentence A** follows, describing the speaker's examination of these approaches.
- **Sentence D** provides additional detail about one of the approaches, specifically the footpath where the speaker's goat was killed.
- Finally, **sentence C** concludes the paragraph by explaining the speaker's decision based on their examination of the approaches and the incident with the goat.

Question 67 :

Select the most appropriate ANTONYM of the underlined word. The patient found the doctor to be obtuse and distracted by constant calls on his phone.



Difficulty : Moderate

Average Time : 58 Seconds

Options :

1. astute
2. obese
3. banal
4. obsolete

Solution :

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

- "**Obtuse**" in this context means lacking sharpness or intelligence, particularly in understanding or perceiving things.
- "**Astute**," on the other hand, means having or showing an ability to accurately assess situations or people and turn this to one's advantage.

Question 68 :

Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution'. He was so curious that he rose many questions in the meeting.

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. that he raised many questions
2. that he rose much questions
3. that he aroused many questions
4. No substitution

Solution :

The correct answer is **option 1** i.e. **that he raised many questions**.

- The original sentence "He was so curious that he rose many questions in the meeting" contains a verb tense error.
- The verb "rose" is incorrect; it should be "**raised**" to convey the intended meaning.

Question 69 :

Select the most appropriate option to substitute the underlined segment in the given sentence. Carolina opened a savings account to save money for later.



Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. for a cold day
2. for a rainy day
3. for a sunny day
4. for a hot day

Solution :

The correct answer is **option 2** i.e. **for a rainy day**.

- The phrase "for a rainy day" is an idiom that means setting aside money or resources for future needs or unexpected expenses.

Question 70 :

Select the most appropriate one-word substitution of the given group of words. A similarity between like features of two things, on which a comparison may be based.

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. Analogy
2. Amalgamation
3. Apathy
4. Ambiguity

Solution :

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

- An analogy is a comparison between two things that highlights similarities between their features or aspects.

Question 71 :

Select the most appropriate meaning of the underline Do not beat about the bush when you have anything to say.

Difficulty : Moderate

Average Time : 39 Seconds

Options :



- To try to influence
- To shift blame on others
- To argue
- To avoid giving a definite answer or position

Solution :

The correct answer is **option 4** i.e. **To avoid giving a definite answer or position.**

- The idiom "beat about the bush" means to avoid addressing or discussing something directly, often by talking around the main point or issue.

Question 72 :

Select the INCORRECTLY spelt word.

Difficulty : Moderate

Average Time : 43 Seconds

Options :

- Astute
- Absolute
- Abrupt
- Abendance

Solution :

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

- The correct spelling is "ABUNDANCE."

Question 73 :

Select the option that can be used as a one-word substitute for the given group of words. The money paid to former wife, husband or partner when the marriage is ended.

Difficulty : Moderate

Average Time : 40 Seconds

Options :

- Alimony
- Compensation
- Recompense



Maintenance

Solution :

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

- "**Alimony**" refers to the financial support or allowance that one spouse or partner provides to the other, especially after a divorce or separation.

Question 74 :

Select the option that can be used as a one-word substitute for the given group of words. A group of people travelling together in a van.

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. Gypsies
2. Caravan
3. Brood
4. Constellation

Solution :

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

- A "caravan" refers to a group of people traveling together, often in a convoy of vehicles such as vans, trucks, or trailers.

Question 75 :

Parts of the following sentence have been given as options. Select the option that contains an error. I think Jeremy will not / have save enough money/ by the time / the year ends.

Difficulty : Moderate

Average Time : 44 Seconds

Options :

1. the year ends
2. have save enough money
3. by the time
4. I think Jeremy will not

Solution :



The correct answer is **option 2** i.e. **have save enough money.**

- The correct form of the verb in this context is "**saved**" rather than "save."
- The sentence requires the past participle form of the verb "save" to correctly indicate completion of the action.
- Therefore, the correct segment should be "**have saved enough money.**"

Comprehension :

Directions: In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. The (1). of birds is one of the most fascinating aspects of the natural world. From the soaring flight of eagles to the colourful plumage of parrots, birds have evolved a wide range of (2), to survive and thrive in their environments. One of the most remarkable adaptations is the ability of some birds to migrate over vast distances, often crossing oceans and continents to reach their breeding or wintering grounds. However, many species of birds are facing threats to their survival, such as habitat loss, climate change and (3). by humans. In response, conservation efforts have been put in place to protect these birds and their habitats. This might involve creating protected areas, restoring degraded habitats or reducing the use of pesticides and other harmful chemicals. Another important aspect of bird conservation is (4), populations to track changes over time and identify emerging threats. This can be done through citizen science programmes or through more intensive efforts led by conservation organisations. Ultimately, protecting birds and their habitats is not only important for the birds themselves but also for the broader ecosystems they are a part of, and the many benefits these ecosystems provide to humans, such as clean air and water, and (5). opportunities.

Question 76 :

Select the most appropriate option to fill in blank no. 1.

Difficulty : Moderate

Average Time : 112 Seconds

Options :

1. assortment
2. variability
3. multitude
4. Diversity

Solution :

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

- The word "**Diversity**" fits well in the context, as it introduces the topic of the varied species of birds.
- It suggests that the passage will discuss the diverse range of birds and their characteristics, which aligns with the subsequent discussion on the adaptation and survival strategies of different bird species.

Comprehension :

Directions: In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. The (1). of birds is one of the most fascinating aspects of the natural world. From the soaring flight of eagles to the colourful plumage of parrots, birds have evolved a wide range of (2), to survive and thrive in their environments. One of the most remarkable adaptations is the ability of some birds to migrate over vast distances, often crossing oceans and continents to reach their breeding or wintering grounds. However, many species of birds are facing threats to their survival, such as habitat loss, climate change and (3). by humans. In response, conservation efforts have been put in place to protect these birds and their habitats. This might involve creating protected areas, restoring degraded habitats or reducing the use of pesticides and other harmful chemicals. Another important aspect of bird conservation is (4), populations to track changes over time and identify emerging threats. This can be done through citizen science programmes or through more intensive efforts led by conservation organisations. Ultimately, protecting birds and their habitats is not only important for the birds themselves but also for the broader ecosystems they are a part of, and the many benefits these ecosystems provide to humans, such as clean air and water, and (5). opportunities.

Question 77 :

Select the most appropriate option to fill in blank no. 2.

Difficulty : Moderate

Average Time : 106 Seconds

Options :

1. failures
2. strategies
3. shortcomings
4. Weakness

Solution :

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

- The word "strategies" is the most suitable option to fill in blank no. 2.
- It fits well in the context of discussing how birds have evolved various techniques or plans to survive and thrive in their environments.

Comprehension :

Directions: In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. The (1). of birds is one of the most fascinating aspects of the natural world. From the soaring flight of eagles to the colourful plumage of parrots, birds have evolved a wide range of (2), to survive and thrive in their environments. One of the most remarkable adaptations is the ability of some birds to migrate over vast distances, often crossing oceans and continents to reach their breeding or wintering grounds. However, many species of birds are facing threats to their survival, such as habitat loss, climate change and (3). by humans. In response, conservation efforts have been put in place to protect these birds and their habitats. This might involve creating protected areas, restoring

degraded habitats or reducing the use of pesticides and other harmful chemicals. Another important aspect of bird conservation is (4), populations to track changes over time and identify emerging threats. This can be done through citizen science programmes or through more intensive efforts led by conservation organisations. Ultimately, protecting birds and their habitats is not only important for the birds themselves but also for the broader ecosystems they are a part of, and the many benefits these ecosystems provide to humans, such as clean air and water, and (5). opportunities.

Question 78 :

Select the most appropriate option to fill in blank no. 3.

Difficulty : Moderate

Average Time : 102 Seconds

Options :

1. safeguarding
2. preservation
3. exploitation
4. Migration

Solution :

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

- It suggests that birds are facing threats primarily from humans exploiting them.

Comprehension :

Directions: In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. The (1). of birds is one of the most fascinating aspects of the natural world. From the soaring flight of eagles to the colourful plumage of parrots, birds have evolved a wide range of (2), to survive and thrive in their environments. One of the most remarkable adaptations is the ability of some birds to migrate over vast distances, often crossing oceans and continents to reach their breeding or wintering grounds. However, many species of birds are facing threats to their survival, such as habitat loss, climate change and (3). by humans. In response, conservation efforts have been put in place to protect these birds and their habitats. This might involve creating protected areas, restoring degraded habitats or reducing the use of pesticides and other harmful chemicals. Another important aspect of bird conservation is (4), populations to track changes over time and identify emerging threats. This can be done through citizen science programmes or through more intensive efforts led by conservation organisations. Ultimately, protecting birds and their habitats is not only important for the birds themselves but also for the broader ecosystems they are a part of, and the many benefits these ecosystems provide to humans, such as clean air and water, and (5). opportunities.

Question 79 :

Select the most appropriate option to fill in blank no. 4.

**Difficulty : Moderate****Average Time : 95 Seconds****Options :**

1. neglecting
2. monitoring
3. overlooking
4. Forgetting

Solution :

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

- **"Monitoring"** accurately describes the process of systematically observing and recording data on bird populations to understand their status and trends.

Comprehension :

Directions: In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. The (1). of birds is one of the most fascinating aspects of the natural world. From the soaring flight of eagles to the colourful plumage of parrots, birds have evolved a wide range of (2), to survive and thrive in their environments. One of the most remarkable adaptations is the ability of some birds to migrate over vast distances, often crossing oceans and continents to reach their breeding or wintering grounds. However, many species of birds are facing threats to their survival, such as habitat loss, climate change and (3). by humans. In response, conservation efforts have been put in place to protect these birds and their habitats. This might involve creating protected areas, restoring degraded habitats or reducing the use of pesticides and other harmful chemicals. Another important aspect of bird conservation is (4), populations to track changes over time and identify emerging threats. This can be done through citizen science programmes or through more intensive efforts led by conservation organisations. Ultimately, protecting birds and their habitats is not only important for the birds themselves but also for the broader ecosystems they are a part of, and the many benefits these ecosystems provide to humans, such as clean air and water, and (5). opportunities.

Question 80 :

Select the most appropriate option to fill in blank no. 5.

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

1. arduous
2. recreational
3. work-related

strenuous

Solution :

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

- **"Recreational"** refers to activities or experiences that are done for enjoyment, leisure, or relaxation, rather than as a job or out of necessity.

Question 81 :

Study the given table and answer the question that follows. The table shows the classification of 100 students based on the marks obtained by them in Statistics and Mathematics in an examination out of 50. Subject 40 and above 30 and above 20 and above 10 and above 0 and above Mathematics 8 33 90 82 100 Statistics 5 22 60 87 100 If at least 60% marks in Mathematics are required for pursuing higher studies in Mathematics, then how many students will be eligible to pursue higher studies in Mathematics?

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. 33
2. 27
3. 90
4. 10

Solution :

The correct answer is **Option 1** i.e. **33**.

Total marks = 50

Eligible for higher studies in mathematics marks = $50 \times 60\% = 30$

Total students who are eligible to pursue higher studies in mathematics = 33

Question 82 :

After allowing a discount of 15%, the value of a washing machine is ₹1,29,750. If no discount is allowed, then the shopkeeper gains 12%. The cost price of the washing machine is:

Difficulty : Moderate

Average Time : 41 Seconds

Options :

1. Rs. 31,250



Rs. 31,500

3. Rs. 31,750

4. Rs. 32,000

Solution :

The correct answer is **Option 1** i.e. **Rs. 31,250**.

Given that

Discount = 15%

S.P. of washing machine = Rs. 29750

Gain % = 12%

According to the question

$$(100 - 15)\% = 29750$$

$$85\% = 29750$$

$$1\% = 29750/85 = 350$$

$$100\% = \text{Rs. } 35000$$

Thus, M.P. of washing machine = Rs. 35000

If no discount is given, M.P. = S.P. = Rs. 35000

$$\text{C.P.} = \text{S.P.} \times [100/(100 + \text{Profit})]$$

$$\text{C.P.} = 35000 \times (100/112) = \text{Rs. } 31250$$

Question 83 :

Pratima and Diksha can complete typing work separately in 10 hours and 15 hours, respectively. After typing for 4 hours alone, Pratima leaves the work. In how many hours will Diksha complete the remaining typing work?

Difficulty : Moderate

Average Time : 58 Seconds

Options :

1. 8

2. 10

3. 9



7

Solution :

The correct answer is **Option 3** i.e. **9**.

Pratima and Diksha can complete typing work separately in 10 hours and 15 hours, respectively

$$\text{L.C.M}(10 \text{ and } 15) = 30$$

$$\text{The efficiency of Pratima} = 30/10 = 3 \text{ units}$$

$$\text{The efficiency of Diksha} = 30/15 = 2 \text{ units}$$

$$\text{Pratima work for 4 hours alone} = 4 \times 3 = 12 \text{ units}$$

$$\text{Remaining work} = 30 - 12 = 18 \text{ units}$$

$$\text{Time taken by Diksha} = 18/2 = 9 \text{ units}$$

Question 84 :

What is the volume of a cube if the perimeter of one face of the cube is 40 cm?

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

1. 1000 cm³
2. 820 cm³
3. 600 cm³
4. 800 cm³

Solution :

The correct answer is **Option 1** i.e. **1000 cm³**.

The side of one face of the cube

$$40 = 4a$$

$$a = 10$$

$$\text{Volume} = a \times a \times a$$

$$10 \times 10 \times 10 = 1000 \text{ cm}^3$$

Question 85 :



The following table gives the information of the number of students (in thousands) placed in five different companies during six different years. Year Company A G Y T F 2010 9.6 10.4 9.3 9.8 8.7 2011 10.4 12.6 7.2 13.8 6.2 2012 12.6 9.8 10.4 14.9 9.8 2013 16.8 15.4 11.4 16.3 11.3 2014 19.3 13.4 13.4 11.8 7.8 2015 18.7 16.7 12.7 15.7 13.7 What is the difference (in thousands) between the students placed in all companies in the year 2014 and 2012?

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. 9000
2. 7800
3. 8200
4. 7500

Solution :

The correct answer is **Option 3** i.e. **8200**.

Number of students placed in 2012 = $12.6 + 9.8 + 10.4 + 14.9 + 9.8 = 57.5$

Number of students placed in 2014 = $19.3 + 13.4 + 13.4 + 11.8 + 7.8 = 65.7$

Required difference = $65.7 - 57.5 = 8.2 = 8200$

Question 86 :

One quality of rice at 45 per kg is mixed with another quality at a certain rate in the ratio of 3:2. If the mixture so formed is worth ₹150 per kg, what is the rate per kg of the second quality of rice?

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. Rs. 57
2. Rs. 57.5
3. Rs. 58
4. Rs. 58.5

Solution :

The correct answer is **Option 2** i.e. **Rs. 57.5**

Given that



The price of one quality of rice is ₹145/kg

The mixing of two qualities of rices in the ratio of 3 : 2

Let one quality of rice be $3x$ and other quality of rice be $2x$

The price of mixture of rices is ₹150/kg

Let the price of second quality of rice be P

According to the question

$$45 \times 3x + P \times 2x = 50 \times 5x$$

$$135 + 2P = 250$$

$$2P = 250 - 135 = 115$$

$$P = 115/2 = ₹57.5$$

Question 87 :

What is the radius of the circle that circumscribes the triangle ABC whose sides are 16, 30, and 34 units, respectively?

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. 16 units
2. 17 units
3. 28 units
4. 34 units

Solution :

The correct answer is **Option 2** i.e. **17 units**.

Dimension of the triangle = 16, 30, and 34

In $\triangle ABC$

By Pythagoras theorem

$$AB^2 = AC^2 + BC^2$$

$$34^2 - 30^2 = AC^2$$

$$AC^2 = 1156 - 900$$

$$AC^2 = 256 = 16^2$$

Hence, it is a right-angled triangle

We know that circumradius = $H/2 = 34/2 = 17$ units

Question 88 :

How many of the following numbers are divisible by 132? 660, 754, 924, 1452, 1526, 1980, 2045 and 2170

Difficulty : Moderate**Average Time : 54 Seconds****Options :**

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

Solution :

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

Divisibility rule of 132 = 3, 4, and 11 are factors of 132, hence if a number is divisible by 3,4 and 11, the number will be divisible by their product 132 also

$$660 = 11 \times 2 \times 3 \times 2 \times 5$$

So 660 is divisible by 132.

$$754 = 2 \times 3 \times 109$$

So 754 is not divisible by 132.

$$924 = 2 \times 2 \times 3 \times 11 \times 7$$

So 924 is divisible by 132.

$$1452 = 2 \times 2 \times 3 \times 11 \times 11$$

1452 is divisible by 132.

$$1526 = 2 \times 7 \times 109$$

1526 is not divisible by 132.

$$1980 = 2 \times 11 \times 2 \times 3 \times 3 \times 5$$



1980 is divisible by 132.

$2045 = 5 \times 409$

2045 is not divisible by 132.

$2170 = 2 \times 7 \times 5 \times 31$

2170 is not divisible by 132.

Hence, 4 numbers i.e. 660, 924, 1452, 1980 is divisible by 132

Question 89 :

In a constituency, 90% of the total number of people on the electoral roll cast their votes during an election. 15% of the votes cast were declared invalid. Jeeta secured 60% of the valid votes. If Jeeta secured 91,800 valid votes, what was the total number of people on the electoral roll?

Difficulty : Moderate

Average Time : 72 Seconds

Options :

1. 2,16,000
2. 2,25,000
3. 1,80,000
4. 2,00,000

Solution :

The correct answer is **Option 4** i.e. **2,00,000**.

Let, the total number of people on the electoral roll = $100x$

Total votes cast = $100x \times 90\% = 90x$

Valid votes = $90x \times 85\%$

According to the question: $90x \times 85\% \times 60\% = 91800$

$90x = (91800 \times 100 \times 10)/(85 \times 6)$

$x = (180 \times 100 \times 10)/90$

$x = 2000$

The total number of people on the electoral roll = $100x$

$100 \times 2000 = 200000$ people

Question 90 :

12 men and 16 boys can do a piece of work in 5 days, while 13 men and 24 boys can do it in 4 days. In how many days can 29 men and 22 boys complete the work?

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

1. 2.5
2. 2.45
3. 2.6
4. 2.4

Solution :

The correct answer is **Option 1** i.e. **2.5**.

12 men and 16 boys can do a piece of work in 5 days = $5 \times (12M + 16B)$

13 men and 24 boys can do it in 4 days = $4 \times (13M + 24B)$

As they are doing the same work

$$5 \times (12M + 16B) = 4 \times (13M + 24B)$$

$$60M + 80B = 52M + 96B$$

$$60M - 52M = 96B - 80B$$

$$8M = 16B$$

$$M = 2B$$

Now,

$$\text{Total work} = 5 \times (12M + 16B)$$

$$5 \times (12M + 8M)$$

$$5 \times (20M)$$

Let the time taken by 29 men and 22 boys do work in x days

$$22 \text{ boys} = 11M$$

$29M + 11M = 40M$ can do this work in x days



$$40M \times x = 5 \times (20M)$$

$$x = (5 \times 20)/40$$

$$x = 2.5$$

Question 91 :

A bag contains ₹1550 in the form of 50 p, 25 p, and 20 p coins in the ratio 2 : 3 : 5. The difference between the amounts that are contributed by the 50 p and the 20 p coins is:

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

1. 30

2. 20

3. 10

4. 0

Solution :

The correct answer is **Option 4** i.e. **0**.

Converting into Rupees = $50 \times 2 + 25 \times 3 + 20 \times 5$

$$100 \text{ p} + 75 \text{ p} + 100 \text{ p}$$

$$\text{Rs.}1 + \text{Rs.}0.75 + \text{Rs.}1$$

Now, the difference between 50p and 20p coins = $\text{Rs.}1 - \text{Rs.}1 = \text{Rs.}0$

Question 92 :

The distance between the centres of two circles having radii 16 cm and 8 cm, is 26 cm. The length (in cm) of the direct common tangent of the two circles is:

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

1. 2132

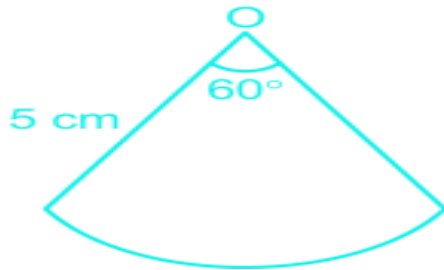
2. 153

3. 2153

4. 132

Solution :

The correct answer is **Option 3** i.e. **2153**.



We know that,

$$AB = d^2 - (r_1 - r_2)^2$$

$$AB = 26^2 - (16 - 8)^2$$

$$AB = 26^2 - 8^2$$

$$AB = 676 - 64$$

$$AB = 612$$

$$AB = 2 \times 2 \times 153$$

$$AB = 2153 \text{ cm}$$



Question 93 :

Find the area of the sector of a circle with a radius of 5 cm and an angle of 60° (rounded off to one decimal).

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. 12.8 cm²
2. 14.1 cm²
3. 13.1 cm²
4. 15.1 cm²

Solution :

The correct answer is **Option 3** i.e. **13.1 cm²**.



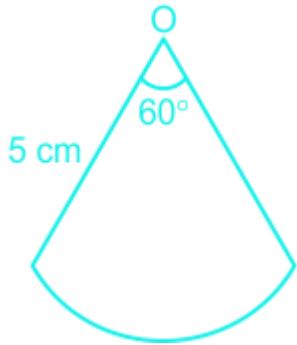
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Area of sector = $\frac{x}{360} \times r^2$

Given: $r = 5$ cm and $x = 60^\circ$

Area of sector = $\frac{60}{360} \times 5^2$

$\frac{1}{6} \times 25 = 4.1667$ cm²

Question 94 :

Solve the following expression. $(-25) \times 8 + (-25) \times 2$

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. -210
2. 250
3. -250
4. 210

Solution :

The correct answer is **Option 3** i.e. **-250**.

$(-25) \times 8 + (-25) \times 2$

Using BODMAS

$-200 - 50 = -250$

Question 95 :

The product of 277 and 323 is:

Difficulty : Moderate

Average Time : 33 Seconds

**Options :**

1. 89471
2. 88471
3. 91371
4. 89391

Solution :

The correct answer is **Option 1** i.e. **89471**.

$$a^2 - b^2 = (a + b)(a - b)$$

$$277 \times 323$$

$$(300 - 23)(300 + 23)$$

$$300^2 - 23^2$$

$$90000 - 629 = 89471$$

Question 96 :

If $\cos x = (-\frac{1}{2})$, x lies in the third quadrant, then $\tan x = ?$

Difficulty : Moderate**Average Time : 40 Seconds****Options :**

1. $\sqrt{3}$
2. $\frac{\sqrt{3}}{2}$
3. $\frac{2}{\sqrt{3}}$
4. $\frac{1}{\sqrt{3}}$

Solution :

The correct answer is **Option 1** i.e. $\sqrt{3}$.

We know there are four quadrants

Quadrant I:- All trigonometry ratios are positive

Quadrant II:- only sin and cosec are positive

Quadrant III:- only tan and cot are positive



Quadrant IV:- only cos and sec are positive

$$\cos x = -1/2$$

$$\cos 60^\circ = 1/2$$

$$x = 60^\circ$$

Then,

$$\tan x = \tan 60^\circ = 3$$

Question 97 :

A person took a loan at 5% per annum simple interest during the first year and with an increase of 0.5% simple interest every year from the second year onwards. After 4 years, he paid ₹14,600 as a total interest to settle the loan completely. How much was the loan?

Difficulty : Moderate

Average Time : 66 Seconds

Options :

1. ₹ 20,000
2. ₹ 19,000
3. ₹ 18,000
4. ₹ 21,000

Solution :

The correct answer is **Option 1** i.e. ₹ 20,000.

Rate of interest for the first year = 5%

Formula used:

$$\text{Simple interest (S.I)} = (P \times R \times T)/100$$

Where, P = principal; R = rate; T = time

According to the question:

$$(P \times 5 \times 1)/100 + (P \times 5.5 \times 1)/100 + (P \times 6 \times 1)/100 + (P \times 6.5 \times 1)/100 = 4600$$

$$P/100 [5 + 5.5 + 6 + 6.5] = 4600$$

$$23P = 4600 \times 100$$

$$P = \text{Rs.}20000$$

**Question 98 :**

Using $\cos(A + B) = \cos A \cos B - \sin A \sin B$, find the value of $\cos 75^\circ$.

Difficulty : Moderate**Average Time : 51 Seconds****Options :**

1. $\frac{\sqrt{5}-1}{4}$
2. $\frac{\sqrt{5}+1}{4}$
3. $\frac{\sqrt{6}-\sqrt{2}}{4}$
4. $\frac{\sqrt{6}+\sqrt{2}}{4}$

Solution :

The correct answer is **Option 3** i.e. $\frac{\sqrt{6}-\sqrt{2}}{4}$.

$$\cos(A + B) = \cos A \cos B - \sin A \sin B$$

Putting $A = 45^\circ$ and $B = 30^\circ$

$$\cos(45^\circ + 30^\circ) = \cos 45^\circ \cos 30^\circ - \sin 45^\circ \sin 30^\circ$$

On putting the trigonometric values

$$\cos 75^\circ = \frac{1}{2} \times \frac{3}{2} - \frac{1}{2} \times \frac{1}{2}$$

$$\cos 75^\circ = \frac{3}{22} - \frac{1}{22}$$

$$\cos 75^\circ = \frac{(3 - 1)}{22}$$

on rationalize

$$\cos 75^\circ = \frac{(3 - 1)}{22} \times \frac{22}{22}$$

$$\cos 75^\circ = \frac{22(3 - 1)}{8}$$

$$\cos 75^\circ = \frac{2(6 - 2)}{8}$$

$$\cos 75^\circ = \frac{(6 - 2)}{4}$$

Question 99 :

A man is walking at a speed of 14 km/h. After every km, he takes rest for 7 minutes. How much time will he take to cover a distance of 7 km?

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



$\left(\frac{1}{5}\right)$ hours

2. $\left(\frac{1}{3}\right)$ hours

3. $\left(\frac{1}{3}\right)$ hours

4. $\left(\frac{1}{5}\right)$ hours

Solution :

The correct answer is **Option 1** i.e. $\left(\frac{1}{5}\right)$ hours.

We know that,

Time = Distance/Speed

According to the question:

If a man did not rest

Time = $7/14 = 1/2$ hr or 30 min

Number of times a man take rest = $7 - 1 = 6$ times

Rest time of the man = $6 \times 7 = 42$ min

Total time = $30 + 42 = 72$ minutes

Changing into hours = $72/60 = 6/5 = \left(\frac{1}{5}\right)$

Question 100 :

If $x + \left(\frac{1}{x}\right) = 6$, what will be the value of $x^5 + \left(\frac{1}{x^5}\right)$?

Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. 7776

2. -6726

3. -6738

4. -6732

Solution :

The correct answer is **Option 2** i.e. -6726.

Formulae: $(a + b)^2 = a^2 + 2ab + b^2$



$$(a + b)^3 = a^3 + 3ab(a + b) + b^3$$

Now, according to the question

$$x + 1/x = -6$$

squaring both sides

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

$$x^2 + 1/x^2 = 34$$

$$x^3 + 1/x^3 = (-6)^3 - 3 \times -6$$

$$x^3 + 1/x^3 = -216 + 18 = -198$$

$$x^5 + 1/x^5 = (x^2 + 1/x^2)(x^3 + 1/x^3) - (x + 1/x)$$

$$34 \times -198 - (-6)$$

$$-6732 + 6 = -6726$$

Ssc Cgl Tier I Previous Year Question Paper Analysis

The analysis of Ssc Cgl Tier I Previous Year Question Paper held on 2023-10-27 in the Morning Shift exam is as follows:

1. 100 questions were moderate.
2. The safe score is 140 marks.
3. , 25 questions were asked from Quantitative Aptitude, 24 questions were asked from Logical Reasoning, 26 questions were asked from General Awareness and 25 questions were asked from English Language
4. 15 questions should have been skipped if you were short of time.

Ssc Cgl Tier I Previous Year Question Paper Topic Wise Weightage

Quantitative Aptitude

1. Simplification - 1
2. Percentage - 1
3. Data Interpretation - 2
4. Time And Work - 3



- Time Speed And Distance - 2
- 6. Interest - 1
- 7. Ratios And Proportion - 1
- 8. Geometry - 2
- 9. Trigonometry - 3
- 10. Mensuration - 1
- 11. Number System - 5
- 12. Mixtures And Alligations - 1
- 13. Profit And Loss - 2

Logical Reasoning

- 1. Coding Decoding - 1
- 2. Mirror Image - 2
- 3. Analogy - 4
- 4. Blood Relations - 2
- 5. Dictionary Based - 2
- 6. Series - 4
- 7. Mathematical Reasoning - 2
- 8. Cubes And Dice - 1
- 9. Embedded Figure - 1
- 10. Pattern Completion - 1
- 11. Pattern Completion - 1
- 12. Seating Arrangement And Puzzle - 4

General Awareness

- 1. History - 3
- 2. Polity - 2
- 3. Economics - 1
- 4. Science - 4
- 5. Geography - 3
- 6. GK Misc - 3
- 7. Current Affairs - 4
- 8. Law & Constitution - 3
- 9. Art And Culture - 3

English Language

- Reading Comprehension - 5
- 2. Grammar - 1
- 3. Spotting Error - 1
- 4. Parajumbles - 2
- 5. One Word Substitution - 3
- 6. Fillers - 1
- 7. Voice - 2
- 8. Sentence Improvement - 2
- 9. Antonym - 5
- 10. Filler (Vocab) - 1
- 11. Incorrectly Spelt - 2
- 12. Incorrectly Spelt - 2

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 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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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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