

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 2021-08-17 in the Afternoon 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 :

Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the letter-cluster that is different.

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. SHLO
2. JOTG
3. KPSH
4. DWZA

Solution :

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

The loaic followed here is:

A	B	C	D	E	F	G	H	I	J	K	L	M
1	2	3	4	5	6	7	8	9	10	11	12	13
Z	Y	X	W	V	U	T	S	R	Q	P	O	N
26	25	24	23	22	21	20	19	18	17	16	15	14

Second letter is opposite of the first letter and fourth letter is opposite of the third letter except in option 2.

SHLO S H, L O

JOTG J Q, T G

KPSH K P, S H

DWZA D W, Z A

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


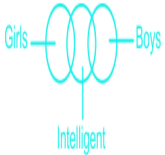
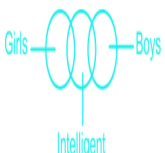
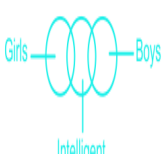
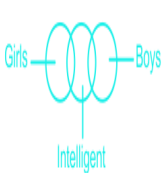
Question 2 :

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

Difficulty : Moderate

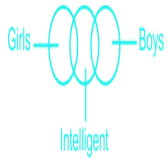
Average Time : 63 Seconds

Options :

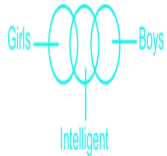
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Solution :

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



The given figure is embedded in option 1 as shown below:



Hence, the correct answer is **Option 1**.

Question 3 :

In a certain code language 'PAYMENT' is coded as '6101814111520' and 'JUSTIFY' is coded as '11141519151620'. How will 'COMPARE' be coded in that language?

Difficulty : Moderate

Average Time : 70 Seconds

Options :

1. 681013101113
2. 601811031131
3. 613101113801
4. 680113111103

Solution :

The correct answer is **Option 1** i.e **681013101113**.

The logic followed here is:

- 1.) All the letters of the given word are arranged into alphabetical order.
- 2.) Add 5 to the positional value of first three letters and subtract 5 from the positional value of last three letters, while the middle one remain unchanged.

PAYMENT is coded as 6101814111520

PAYMENT → AEMNPTY

$$A(1) + 5 = 6$$

$$E(5) + 5 = 10$$



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$$M(13) + 5 = 18$$

$$N(14) + 0 = 14$$

$$P(16) - 5 = 11$$

$$T(20) - 5 = 15$$

$$Y(25) - 5 = 20$$

JUSTIFY is coded as 11141519151620

JUSTIFY FIJSTUY

$$F(6) + 5 = 11$$

$$I(9) + 5 = 14$$

$$J(10) + 5 = 15$$

$$S(19) = 19$$

$$T(20) - 5 = 15$$

$$U(21) - 5 = 16$$

$$Y(25) - 5 = 20$$

Similarly,

COMPARE ACEMPOR

$$A(1) + 5 = 6$$

$$C(3) + 5 = 8$$

$$E(5) + 5 = 10$$

$$M(13) = 13$$

$$O(15) - 5 = 10$$

$$P(16) - 5 = 11$$

$$R(18) - 5 = 13$$

Hence, the correct answer is **681013101113**.

Question 4 :

Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.

pq_dh_qmd_p_m_h_q_dh



Difficulty : Moderate

Average Time : 81 Seconds

Options :

1. m, p, h, q, d, p, m
2. m, p, q, h, d, p, m
3. d, m, m, p, p, h, q
4. d, h, m, m, p, p, q

Solution :

The correct answer is **Option 1** i.e., **m, p, h, q, d, p, m**

The pattern followed here is:

The sequence is **m, p, h, q, d, p, m**

Given sequence: pq_dh_qmd_p_m_h_q_dh

Option 1: M P H Q D P M

The complete series is as follows:

pqmdh

Option 1 forms a particular pattern. So, there is no need for checking further options.

Hence, the correct answer is **m, p, h, q, d, p, m**.

Question 5 :

Select the correct combination of mathematical signs that can sequentially replace the * signs and balance the equation.

$$18 * 12 * 4 * 5 * 6 * 53$$

Difficulty : Moderate

Average Time : 71 Seconds

Options :

1. $\times, \div, , +, =$
2. $\times, \div, +, , =$
3. $\times, \div, =, +,$
4. $\times, \div, +, =,$

Solution :

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The correct answer is **Option 2** i.e $\times, \div, +, , =$

Option 1: $\times, \div, , +, =$

$$18 \times 12 \div 4 + 5 + 6 = 53$$

$$18 \times 3 - 5 + 6 = 53$$

$$54 - 5 + 6 = 53$$

$$55 - 53$$

Option 2: $\times, \div, +, , =$

$$18 \times 12 \div 4 + 5 - 6 = 53$$

$$18 \times 3 + 5 - 6 = 53$$

$$54 + 5 - 6 = 53$$

$$59 - 6 = 53$$

$$53 = 53$$

Since we got the correct answer from option 2, there is no need to check other options.

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

Question 6 :

Study the given pattern carefully and select the number that can replace the question mark (?) in it. 3 11 2 5 11 7 13 ? 18

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. 29

2. 27

3. 33

4. 31

Solution :

The correct answer is **Option 1** i.e **29**.

The logic followed here is:

In column 1, we add first two digits, then the sum of digits is added to the second number i.e. $3 + 5 = 8$, $5 + 8 = 13$.

Likewise in column 3 $2 + 7 = 9$ $9 + 9 = 18$

Similarly,

In column 2 $11 + 11 = 22$ $11 + 22 = 29$

Hence, the correct answer is **29**.

Question 7 :

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

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. 78 : 127
2. 61 : 97
3. 56 : 136
4. 25 : 89

Solution :

The correct answer is **Option 3** i.e **56 : 136**.

78 : 127 $127 - 78 = 49$ square of 7

61 : 97 $97 - 61 = 36$ square of 6

56 : 136 $136 - 56 = 80$ not a square

25 : 89 $89 - 25 = 64$ square of 8

Since all the numbers are perfect squares except 80. Hence, the correct answer is **56 : 136**.

Question 8 :

Select the option that is related to the third word in the same way as the second word is related to the first word.

Dermatologist : Skin : Neonatologist : ?

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. Immunity
2. Infants



Hormones

4. Liver

Solution :

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

The logic followed here is:

Dermatologist: Dermatologists are medical doctors who specialize in skin, hair and nails.

Neonatologist: A neonatologist is a medical professional who specialises in caring for newborn babies, particularly those who are ill or born prematurely.

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

Question 9 :

Pointing to a player in a stadium, Sanjana said, "He is my paternal grandmother's only son's only son-in-law's son". How is that player's father related to Sanjana?

Difficulty : Moderate

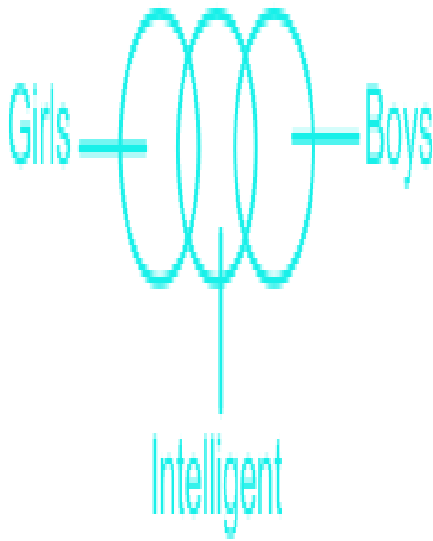
Average Time : 52 Seconds

Options :

1. Brother
2. Uncle
3. Cousin
4. Husband

Solution :

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



Hence, the correct answer is **Husband**

Question 10 :

Gautam's present age is equal to 20% of his father's age 15 years ago, and Gaurav's (brother of Gautam) present age is 60% of his father's age 10 years ago. If the sum of Gautam's present age and Gaurav's present age is 31, then find their father's present age.

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. 40 years
2. 50 years
3. 55 years
4. 45 years

Solution :

The correct answer is **Option 2** i.e **50 years**.

Let the present age of father be x .

15 years ago father's age $x - 15$

10 years ago father's age $x - 10$

According to question:



Gautam's present age $20\% (x - 15) = (x - 15) \div 5$

Gaurav's (brother of Gautam) present age $60\% (x - 10) = (3x - 30) \div 5$

$$[(x - 15) \div 5] + [(3x - 30) \div 5] = 31$$

$$x - 15 + 3x - 30 = 31 \times 5$$

$$4x - 45 = 155$$

$$4x = 155 + 45$$

$$x = 200 \div 4 = 50$$

Hence, the correct answer is **50 years**.

Question 11 :

Select the option that is related to the fourth number in the same way as the first number is related to the second number and the fifth number is related to the sixth number. $12 : 136 :: ? : 188 :: 24 : 568$

Difficulty : Moderate

Average Time : 66 Seconds

Options :

1. 14

2. 26

3. 32

4. 41

Solution :

The correct answer is **Option 1** i.e. 14 .

$$12 : 136 :: ? : 188 :: 24 : 568$$

The logic followed here is:

$$12 : 136 \quad 12^2 - 8 = 144 - 8 = 136$$

$$24 : 568 \quad 24^2 - 8 = 576 - 8 = 568$$

Similarly,

$$? : 188 \quad x^2 - 8 = 188$$

$$x^2 = 188 + 8 = 196$$

$$x = 196^{\frac{1}{2}}$$

$$x = 14$$

Hence, the correct is **14**.

Question 12 :

Select the option in which the numbers are related in the same way as are the numbers of the following set. (9, 21, 124)

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. (5, 16, 220)
2. (14, 58, 112)
3. (11, 64, 131)
4. (17, 37, 220)

Solution :

The correct answer is **Option 4** i.e (17, 37, 220).

The logic followed here is:

$$(9, 21, 124) \quad (9 + 21 + 1) \times 4 = 124$$

Similarly,

$$(17, 37, 220) \quad (17 + 37 + 1) = 220$$

Hence, the correct answer is **(17, 37, 220)**.

Question 13 :

Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follows from the statements. Statements: All camels are bats. No bat is a parrot. Some camels are lions. Conclusions: I. Some bats are lions. II. No parrot is a camel. III. No parrot is a lion.

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. Both conclusions I and III follow
2. Only conclusion II follows

Only conclusion I follows

4. Both conclusions I and II follow

Solution :

The correct answer is **Option 4** i.e **Both conclusions I and II follow.**



Conclusions:

I. Some bats are lions **True** (All camels are bats and some camels are lion. So, the part of bat that is camel is also lion)

II. No parrot is a camel **True** (All camels are bats and no bat is parrot so, no parrot is camel)

III. No parrot is a lion **False** (It is a possibility but not definite)

Question 14 :

Select the letter-cluster from among the given options that can replace the question mark (?) in the following series. TALT, YAGT, YFGO, DFBO, DKBJ, ?

Difficulty : Moderate

Average Time : 67 Seconds

Options :

1. BDEP
2. IKWJ
3. DPBE
4. IJKW

Solution :

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



â€œâ€œâ€œâ€œâ€œ

The logic followed here is:

Firstly, alphabets on 1st and 3rd places are changing following the pattern of +5 & -5 while the 2nd and 4th one is remaining same.

$$T + 5 = Y, I - 5 = G$$

Then in the next step, alphabets on 1st and 3rd places are not changed while the 2nd and 4th one changing following the pattern of +5 & -5 and so on.

$$A + 5 = F$$

$$T - 5 = O$$

Question 15 :

In a certain code language, 'PERMIT' is written as 'GRNIVK'. How will 'CONDUCE' be written in that language?

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. XLMWFXV
2. VXFVMLX
3. VFXMWXL
4. VXFMWLX

Solution :

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

'PERMIT' is written as 'GRNIVK'. How will 'CONDUCE' be written in that language?

The pattern followed here is:

First we write the alphabets that are opposite to the given alphabets then, it is arranged in the reverse order.

A	B	C	D	E	F	G	H	I	J	K	L	M
1	2	3	4	5	6	7	8	9	10	11	12	13
Z	Y	X	W	V	U	T	S	R	Q	P	O	N
26	25	24	23	22	21	20	19	18	17	16	15	14

PERMIT GRNIVK

Similarly,

CONDUCE VXFVMLX

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

Question 16 :

Find the number of triangles in the given figure.

Difficulty : Moderate

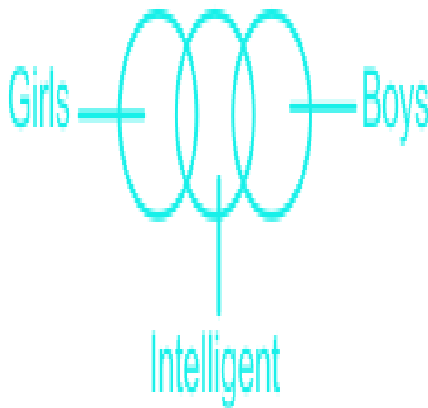
Average Time : 58 Seconds

Options :

- 1. 26
- 2. 28
- 3. 24
- 4. 30

Solution :

The correct answer is **Option 2** i.e **28**.



There are 28 triangles in the above picture i.e.

ABJ, AJH, BIC, CID, DIJ, BIJ, BCD, BJD, CDJ, CBJ, DJE, EFJ, HKJ, JKF, KFG, HKG, HJF, HFG, FGJ, HGJ, CEG, ACG, AEG, ACE, AJC, CJE, EJG and AJG.

Hence, the correct answer is **28**.

Question 17 :

Four words have been given, out of which three are alike in some manner and one is different. Select the word that is different.



Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. Joy stick
2. Keyboard
3. Projector
4. Microphone

Solution :

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

Joystick, Keyboard and Microphone are input devices while the Projector is an output device.

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

Question 18 :

The different positions of the same dice are shown. Select the symbol that will be on the face opposite to the face having 'N'.

Difficulty : Moderate

Average Time : 41 Seconds

Options :

1. #
2. &
3. %
4. @

Solution :

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

In this type of question, we pick the common side and go in a clockwise direction in both positions.

1st position: N % S

2nd position: N & @

% is opposite to &

S is opposite to @

Similarly, N will be opposite to #.

Hence, the correct answer is #.

Question 19 :

Select the correct mirror image of the given combination when the mirror is placed at 'PQ' as shown.

Difficulty : Moderate

Average Time : 49 Seconds

Options :

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

Solution :

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



The mirror image of the given figure along mirror PQ 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 the mirror.

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

Hence, **Option 2** is correct.

Question 20 :

The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?

Difficulty : Moderate

Average Time : 85 Seconds

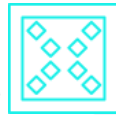
Options :

- 1.

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

Solution :

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



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.

â€œâ€œâ€œâ€œâ€œ

Question 21 :

Select the number from among the given options that can replace the question mark (?) in the following series. 5, 11, 25, 55, 117, 243, ?

Difficulty : Moderate

Average Time : 72 Seconds

Options :

1. 473
2. 437
3. 479

497

Solution :

The correct answer is **Option 4** i.e **497**.

The pattern followed in the given series is:

$$(5 \times 2) + 1 = 11$$

$$(11 \times 2) + 3 = 25$$

$$(25 \times 2) + 5 = 55$$

$$(55 \times 2) + 7 = 117$$

$$(117 \times 2) + 9 = 243$$

Similarly,

$$(243 \times 2) + 11 = 497$$

Hence, the correct answer is **497**.

Question 22 :

Select the option in which the words share the same relationship as that shared by the given pair of words. Sympathy : Affinity

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

1. Vain : Modest
2. Tranquil : Serene
3. Vivid : Dark
4. Tame : Harsh

Solution :

The correct answer is **Option 2** i.e **Tranquil : Serene**

Sympathy is synonym of Affinity.

Similarly, Tranquil is synonym of Serene.

While the remaining words are not related to each other in similar way.

Hence, the correct answer is **Tranquil : Serene**

Question 23 :

Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary. 1. Ecology 2. Enormous 3. Electric 4. Exterior 5. Ecliptic

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

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

Solution :

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

The correct sequence will be:

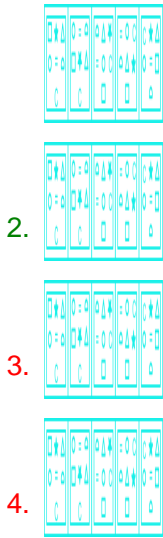
- 5. **Ecliptic**
- 1. **Ecology**
- 3. **Electric**
- 2. **Enormous**
- 4. **Exterior**

Hence, the correct answer is **5, 1, 3, 2, 4**

Question 24 :

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

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



Solution :



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

The pattern followed here is:



"c" will move to the bottommost row at middle position and will remain at the same place even in the second and third image.

"=" the movement is diagonal then upward, again diagonal then upwards and so on....

"Star symbol" the movement is diagonal then downwards, again diagonal then downwards and so on....

"Inverted D" this is moving anti-clockwise +2, +1, +2, +1.....

"circle symbol" this is moving 2 steps forward then 1 step backwards and so on....

"Square symbol" will move to the bottommost row at middle position and will remain at the same place even in the second and third image.

Hence, following the pattern **Option 2** will be the correct answer.

Question 25 :

Select the set of classes, the relationship among which is best illustrated by the following Venn diagram.



Difficulty : Moderate

Average Time : 102 Seconds

Options :

1. Yamuna, Rivers, Kaveri
2. Girls, Intelligent, Boys
3. Stationary, Pencil, Stapler
4. Vegetarian, Woman, Sisters

Solution :

The correct answer is **Option 2** i.e **Girls, Intelligent, Boys**.



Girls and Boys are different entities.

Some girls can be intelligent and some boys can also be intelligent.

Hence, the correct answer is **Girls, Intelligent, Boys**.

Question 26 :

The river Giri is an important tributary of the _____.

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. Cauvery
2. Yamuna
3. Godavari
4. Brahmaputra

Solution :

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

- A significant tributary of the **Yamuna river**, the **Giri River** is also known as **Giri Ganga**.
- The Giri River rises in the Kotkhai highlands and empties into sections of Himachal towards the southeast.



It flows through the district of Sirmaur and further merges with the Yamuna River.

Question 27 :

Who became India's first badminton world champion in 2019?

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. PV Sindhu
2. Kidambi Srikanth
3. Jwala Gutta
4. Saina Nehwal

Solution :

The correct answer is **Option 1** i.e **PV Sindhu**.

- By defeating **Nozomi Okuhara** in 2019, **PV Sindhu** became the first Indian to win gold at the Badminton World Championships.
- The event was the 2019 **BWF World Championships**.
- Additionally, PV Sindhu won silver in the Olympic Games in Rio de Janeiro in 2016, silver at the Commonwealth Games in Gold Coast in 2018, and silver at the Asian Games in Jakarta in 2018.
- BWF's **headquarter's** are in Kuala Lumpur, Malaysia.

Question 28 :

The vertebrae are a part of which of the following body systems in humans?

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. Kidney
2. Lungs
3. Heart
4. Spinal cord

Solution :

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

- The vertebrae are a part of the spinal cord in humans.



The spinal column of humans has **33** vertebrae in all.

- Invertebrates are animals without a backbone, while vertebrates are any animal with a backbone or spinal cord.

Question 29 :

In November 2020, which country became the first in the world to make access to menstrual products a right?

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. Scotland
2. England
3. Wales
4. Ireland

Solution :

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

1. In November 2020, Scotland became the first in the world to make access to menstrual products a right.
2. Scotland has become the first country in the world to make period products free for all. There is now a legal duty on local authorities to provide free items such as tampons and sanitary pads to "anyone who needs them".

Question 30 :

Which of the following popular kitchen ingredients is called the 'sugar-eating fungus'?

Difficulty : Moderate

Average Time : 48 Seconds

Options :

1. Yeast
2. Ketchup
3. Vinegar
4. Baking powder

Solution :

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

- **Yeast** is a single-celled microbe that belongs to the Kingdom Fungi, along with moulds and mushrooms.
- It is also known as a **sugar-eating fungus**.
- Yeasts are divided into two distinct phyla, Ascomycota or sac fungi, and Basidiomycota or higher fungi, which



together make up the subkingdom Dikarya due to their evolutionary diversity.

Question 31 :

Who was the President of the Athletics Federation of India as of January 2021?

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. Rajeev Kumar
2. Adille Sumariwalla
3. Avinash Sable
4. Amrish Kumar

Solution :

The correct answer is **Option 2** i.e **Adille Sumariwalla**.

- For a third term, **Adille Sumariwalla** was chosen to lead the Athletics Federation of India (AFI).
- **Anju Bobby George**, a former Indian athlete, was chosen to serve as senior vice-president.
- As the AFI's new treasurer and general secretary, respectively, Madhukant Pathak and Ravinder Chaudhary won the election.

Question 32 :

SIMBEX is a military exercise conducted between the defense forces of which of the following nations?

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. India and the US
2. India and Sri Lanka
3. India and Thailand
4. India and Singapore

Solution :

The correct answer is **Option 4** i.e. **India and Singapore**

SIMBEX series of exercises began in 1994 and were initially known as Exercise Lion King. The scope and complexity of the exercise has risen substantially over the past two decades to include advanced naval drills covering a wide spectrum of maritime operations. The exercise exemplifies the high level of cooperation between India and Singapore in the



maritime domain. It also highlights the commitment and contribution of the two nations towards enhancing maritime security in the Indian Ocean Region.

Question 33 :

What was the theme for the 3rd Global RE-INVEST Renewable Energy Investors Meet & Expo 2020?

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. Solar and Renewable Energy Innovations
2. Research for Scientific Renewable Energy
3. Investment for Sustainable Energy Transmission
4. Innovations for Sustainable Energy Transition

Solution :

The correct answer is **Option 4** i.e **Innovations for Sustainable Energy Transition**.

- The Ministry of New and Renewable Energy is hosting the **3rd Global RE-INVEST Renewable Energy Investors Meet & Expo (MNRE)**.
- On November 26, 2020, Prime Minister Narendra Modi virtually opened the Third Global Renewable Energy Investment Meeting and Expo (RE-INVEST 2020).
- The theme is '**Innovations for Sustainable Energy Transition**'.

Question 34 :

Who won the 2020 Academy Award for 'Performance by an Actor in a Supporting Role'?

Difficulty : Moderate

Average Time : 54 Seconds

Options :

1. Leonardo DiCaprio
2. Joaquin Phoenix
3. Tom Hanks
4. Brad Pitt

Solution :

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



For the movie "Once Upon a Time in Hollywood," **Brad Pitt** won the Oscar for Best Supporting Actor.

- Since the awards' introduction in **1929**, it has been presented yearly by the Academy of Motion Picture Arts and Sciences (AMPAS).
- It is regarded as the most prestigious annual prize in the world for the top filmmakers, performers, writers, and technicians.
- On **May 14, 1929**, the Oscar ceremony was held for the first Oscars.

Question 35 :

Mughal Emperor Shah Alam appointed the British East India Company as the Diwan of the province of Bengal in the year _____.

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

1. 1917
2. 1765
3. 1835
4. 1623

Solution :

The correct answer is **Option 2** i.e. **1765**.

- **Mughal Emperor Shah Alam** appointed the **British East India Company** as the **Diwan of the province of Bengal** in the year **1765**.
- Following the defeat at Plassey, Sirajuddaulah, Nawab of Bengal was killed, and Mir Jafar, a puppet Nawab of Bengal, was installed in his place.
- When Mir Jafar objected to the corporation's interference in internal administrative matters, the company removed him and replaced him with Mir Qasim.
- After Mir Qasim complained, Mir Jafar was reinstated and he was pushed out of Bengal after losing a fight at Buxar (1764).

Question 36 :

Which Article of the Constitution of India deals with the 'Pardoning Power of the Governor'?

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

1. Article 189



Article 161

3. Article 173

4. Article 150

Solution :

The correct answer is **Option 2** i.e. **Article 161**.

1. **The Pardoning Power of the Governor** is in **Article 161** of the Indian Constitution.
2. This power is known for the Governor's authority to commute, suspend, or remit penalties under specific circumstances.
3. The court-martial punishment that the convict received cannot be commuted by the governor.

Question 37 :

Which of the following Indian cities is situated at the banks of Lake Pichola?

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. Udaipur
2. Ahmedabad
3. Agra
4. Kurnool

Solution :

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

- One of Udaipur's largest and oldest lakes is **Pichola Lake**.
- During the reign of Maharana Lakha, in 1362, Pichu Banjara constructed this lake.
- It is an artificial freshwater lake, created in the year 1362, named after the nearby Picholi village.

Question 38 :

According to which Article of the Constitution of India shall a Money Bill NOT be introduced in the Council of States?

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. Article 354
2. Article 109



Article 298

4. Article 193

Solution :

The correct answer is **Option 2** i.e. **Article 109**.

1. **Article 109** deals with States about the Special procedure in case of money bills in the parliament.
2. **Article 354** deals with the Application of provisions relating to the distribution of revenues.
3. **Article 193** deals with speaking about the Penalty for sitting and voting before making an oath or affirmation.
4. **Article 298** of the Constitution deals with the power to carry on trade.

Question 39 :

Who among the following took charge as Vice Chief of Army Staff in February 2021?

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. Bipin Rawat
2. Chandi Prasad Mohanty
3. Raj Shukla
4. SK Saini

Solution :

The correct answer is **Option 2** i.e **Chandi Prasad Mohanty**.

- **Lieutenant General Chandi Prasad Mohanty** took charge as Vice Chief of Army Staff in February 2021.
- In 1982, Lt Gen CP Mohanty received his commission in the Rajput Regiment.
- Lt Gen Mohanty is an Infantry Officer from the Rajput Regiment who graduated from the June 1982 batch of the Rashtriya Indian Military College (RIMC) in Dehradun and the National Defence Academy.

But now, the Vice Chief of Army Staff is Lieutenant General Baggavalli Somashekar Raju.

Question 40 :

Where does the river Brahmaputra originate?

Difficulty : Moderate

Average Time : 53 Seconds

Options :



Glaciers of Mapchachungo

2. Chemayungdung glacier of the Kailash range
3. Garhwal hills near Gairsain
4. Milam glacier in the Nepal Himalayas

Solution :

The correct answer is **Option 2** i.e. **Chemayungdung glacier of the Kailash range.**

- The **Kailash range's Chemayungdung glacier**, which is close to the Mansarovar lake, is where the **Brahmaputra**, sometimes known as **Siang or Dihang**, has its source.
- West of the Arunachal Pradesh town of Sadiya is where it enters India.
- Tributaries: Dibang, Lohit, Siang, Burhi Dihing, Tista, and Dhansari.
- It is known as Yarlung Zangbo in China and Tsangpo in Tibet.
- Below Dhubri, the river leaves Assam and enters Bangladesh, where it flows for 337 kilometres under the name Jamuna.

Question 41 :

'Margomkali', a ritual folk art form, is from the state of _____.

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. Assam
2. Punjab
3. Nagaland
4. Kerala

Solution :

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

- The **Syrian Christians** of the Kottayam and **Thrissur** regions practice a ritual folk art known as **margomkali**.
- Twelve dancers, dressed in the straightforward traditional white dhoti and donning a peacock feather on the turban to lend a dash of colour, sing and dance around a lit wick lamp.

Question 42 :

Who among the following wrote 'The Light of Asia: The Poem that Defined the Buddha' that will narrate the phenomenal poem 'The Light of Asia'?



Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. Shashi Tharoor
2. Chetan Bhagat
3. Jairam Ramesh
4. Salman Rushdie

Solution :

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

- **The author of The Light of Asia: The Poem that Defined the Buddha is Jairam Ramesh.**
- Five Point Someone, Two States, and What Young India Wants are among the books by Chetan Bhagat.
- Pax Indica, Inglorious Empire, Bookless in Baghdad and Why I Am a Hindu are some of Shashi Tharoor's books.
- The Sellout by Paul Beaty, The Satanic Verses and Midnight's Children are works by Salman Rushdie.

Question 43 :

Which of the following states ranked first in the Export Preparedness Index 2020 released by Niti Aayog?

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. Andhra Pradesh
2. Gujarat
3. Telangana
4. Maharashtra

Solution :

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

- **Gujarat** ranked first in the Export Preparedness Index 2020 released by Niti Aayog.
- On August 26, 2020, NITI Aayog and the Institute of Competitiveness issued the Export Preparedness Index (EPI).

According to the **Export Preparedness Index (EPI) 2021 published** by the **NITI Aayog**, **Gujarat** has been rated India's top State in terms of export preparedness for the second year in a row.

Question 44 :

Payment made to others for the purchase of factors of production is known as _____.

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. Explicit cost
2. Money cost
3. Real cost
4. Implicit cost

Solution :

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

- Payment made to others for the purchase of factors of production is known as **Explicit costs**.
- Explicit cost is the price paid to others for the acquisition of production inputs.
- Payroll, rent, raw materials, and other direct business expenditures and expenses are included.
- The explicit cost of capital, often known as the "discount rate," is the ratio of the present value of cash inflows and outflows that result from incremental financing opportunities.

Question 45 :

Who among the following freedom fighters wrote the poem 'Vande Mataram' in 1875?

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. Bipin Chandra Pal
2. Bhagat Singh
3. Rabindranath Tagore
4. Bankim Chandra Chatterjee

Solution :

The correct answer is **Option 4** i.e. **Bankim Chandra Chatterjee**.

- **Bankim Chandra Chatterjee** composed the **Sanskrit** poem **Vande Mataram**.
- It was taken from the **1882** book **Anand Math**.
- Rabindranath Tagore performed Vande Mataram for the first time in 1896.
- On January 24th, 1950, the constituent assembly approved it.
- Vande Mataram's music was created by Jadhunath Bhattacharya.

**Question 46 :**

In which of the following months is the 'Valvil Ori Vizha' festival of Tamil Nadu celebrated?

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. May
2. June
3. January
4. August

Solution :

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

- Every year in **August** (17th and 18th of Adi in Tamil Month), Kollihills celebrates the **Val Vil Ori Festival** (vizha) in a magnificent manner.
- In the archery tournament held during **Val Vil Ori Vizha**, kids from several schools will take part.

Question 47 :

Who among the following was the first General Secretary of All India Kisan Congress?

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. Sardar Vallabhbhai Patel
2. NG Ranga
3. Swami Sahajanand Saraswati
4. Acharya Narendra Dev

Solution :

The correct answer is **Option 2** i.e. **NG Ranga**.

- The first General Secretary of the All India Kisan Congress was NG Ranga.
- Gogineni Ranga Nayukulu, popularly known as NG Ranga, was a senior politician, farmer, and freedom fighter from India.
- Peasants were included in our fight for liberation because of NG Ranga, who also battled for them.
- He served as the Swatantra Party's first president.

Question 48 :

Which Mughal prince translated the Upanishads into Persian in 1657?

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. Sultan Luftallah
2. Murad Mirza
3. Dara Shikoh
4. Shah Shuja

Solution :

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

- 50 Upanishads were converted from **Sanskrit** to **Persian** by **Dara Shikoh** so that Muslim academics may read them.
- Surr-i-Akbar is a common name for his translation.
- The Mughal Emperor Shah Jahan's eldest son and apparent heir was Dara Shikoh.
- He put a lot of work into identifying a shared mystical vocabulary between Hinduism and Islam.

Question 49 :

Which of the following is one of the main causes of tides?

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. Gravitational pull of the Sun and the Moon
2. Closed orbits of planets
3. Rotation of Earth
4. Solar flares

Solution :

The correct answer is **Option 1** i.e. **Gravitational pull of the Sun and the Moon**.

- The cyclical rise and fall of the ocean is referred to as a tide.
- The gravitational pull of the sun and moon on the Earth produces the tides.
- Gravity is one major force that creates tides.
- In 1687, Sir Isaac Newton explained that ocean tides result from the gravitational attraction of the sun and moon on the oceans of the Earth.

Question 50 :

Melatonin encodes proteins in cells to prevent _____ entry.

Difficulty : Moderate

Average Time : 54 Seconds

Options :

1. virus
2. bacterium
3. fungus
4. protozoan

Solution :

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

- In order to stop **viruses** from entering cells, melatonin encodes proteins.
- The lung-produced melatonin serves as a defense against Covid-19 infection.
- Additionally, this stops the production of genes that act as the virus' entrance sites.

Question 51 :

Select the option that expresses the given sentence in passive voice. Please do your work properly

Difficulty : Moderate

Average Time : 44 Seconds

Options :

1. You are requested to do your work properly.
2. You are instructed to do your work properly.
3. Will you please do your work properly?
4. Can you please do your work properly?

Solution :

The correct answer is **Option 1** i.e **You are requested to do your work**

properly.

- The given sentence is in its imperative form.
- In passive voice, sentences containing requests start with '**You are requested to**'
- The structure of passive voice would be: **You are requested to + verb+ object**

Sentence in Passive voice-



You are requested to do your work properly.

Question 52 :

Select the option that will improve the underlined part of the given sentence. In case no improvement is needed select 'No improvement required'. Preparing children for uncertainties keeps them in readiness to face challenges.

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

1. No improvement required
2. keep them ready
3. keep them to be ready
4. keeps them for readiness

Solution :

The correct answer is **Option 1** i.e **No improvement is required.**

- The given statement needs no improvement.
- The given sentence talks about **preparing children to face challenges.**
- In the given sentence, 'preparing' is used as a participle & the **doer is expressed by the participle and** is usually the **subject of the sentence** or the **main clause.**
- The pronoun '**them**' is used as the **object** of a verb or preposition refers to two or more people or things previously mentioned or easily identified and is correctly used to refer to the noun 'children'.
- The **preposition 'in'** is correct as it is **used for showing the condition or state of somebody or something.**
- '**Preparing children**' is singular, hence will be followed by a **singular verb**, i.e., 'keeps' is correct.
- The usage of the noun 'readiness' is correct as it means the **state of being ready or prepared.**

The correct statement is-

Preparing children for uncertainties keeps them in readiness to face challenges.



Question 53 :

Select the most appropriate meaning of the given idiom. Go easy on something

Difficulty : Moderate

Average Time : 93 Seconds

Options :

1. Use only a small amount of
2. Fill one's plate easily
3. Take as much as one wants
4. Eat slowly and liberally

Solution :

The correct answer is **Option 1** i.e., **Use only a small amount of**.

The meaning of the given idiom, "**Go easy on something**" is "**Use only a small amount of**".

Question 54 :

Select the option that can be used as a one-word substitute for the given group of words. A sentimental longing for a period in the past

Difficulty : Moderate

Average Time : 48 Seconds

Options :

1. Emotion
2. Craving
3. Memory
4. Nostalgia

Solution :

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

The meaning of the giving options is-

- **Emotion**: a strong feeling deriving from one's circumstances, mood, or relationships with others.
- **Craving**: a powerful desire for something.
- **Memory**: the faculty by which the mind stores and remembers information.
- **Nostalgia**: a sentimental longing or wistful affection for a period in the past.



The most appropriate one-word substitution for 'A sentimental longing for a period in the past' is **Nostalgia**.

Question 55 :

The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If there is no error, select 'No error'. They have lived / in this apartment / since ten years.

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

1. in this apartment
2. since ten years
3. No error
4. They have lived

Solution :

The correct answer is **Option 2** i.e **since ten years**.

The error lies **since ten years**. Instead of **since** we need to use **for**.

Usage of Since:

- Since refers to "from a point in the past until now".
- A "point" refers to a particular moment.

Usage of For:

- For means "from the beginning of the period to the end of the periods".
- A "period" is a duration of time.

The correct sentence is-

They have lived in this apartment for ten years.

Comprehension :

In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank. The word "archaeology" comes from the Greek word "arkhaios," which means "ancient." (1)_____ some archaeologists study living cultures, most archaeologists concern (2)_____ with the distant past. People have dug (3)_____ monuments and collected artefacts for thousands of years. (4)_____, these people were not scholars, but looters and grave robbers looking to make money or (5)_____ up their personal collections.

Question 56 :

Select the most appropriate option to fill in blank number 1.



Difficulty : Moderate

Average Time : 90 Seconds

Options :

1. Yet
2. Still
3. Although
4. Even

Solution :

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

- **Although** is used to link two contrasting ideas or show that one fact is a surprising fact for the other.
- It can be used either in the beginning or the middle.

The correct sentence is-

*Although some archaeologists study living cultures, most archaeologists concern **themselves** with the distant past.*

Comprehension :

In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank. The word "archaeology" comes from the Greek word "arkhaios," which means "ancient." (1)_____ some archaeologists study living cultures, most archaeologists concern (2)_____ with the distant past. People have dug (3)_____ monuments and collected artefacts for thousands of years. (4)_____, these people were not scholars, but looters and grave robbers looking to make money or (5)_____ up their personal collections.

Question 57 :

Select the most appropriate option to fill in blank number 2.

Difficulty : Moderate

Average Time : 73 Seconds

Options :

1. itself
2. themselves
3. himself
4. them

Solution :

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

The pronoun **'themselves'** will be used because the noun astrologer is in the plural, clearly, a plural noun will be followed by a plural noun.

The correct sentence is-

*Although some archaeologists study living cultures, most archaeologists concern **themselves** with the distant past.*

Question 58 :

Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the right order to form a meaningful and coherent paragraph. A. These kinds of sharks are known as obligate ram ventilators because they draw water in through their mouths and force it out through their gills. B. They use a method called buccal pumping, in which water is pulled in through the mouth and forced out through the gills by the cheek muscles. C. It is true that many types of sharks must keep moving in order to receive life-giving oxygen from the water passing through their gills. D. Other types of sharks are able to remain stationary because they possess special structures called spiracles, which force water out through their gills.

Difficulty : Moderate

Average Time : 76 Seconds

Options :

1. CABD
2. CDAB
3. CBAD
4. CADB

Solution :

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

- The best way to go about such questions is by finding an **opening statement** or **pairs of sentences**.
- **Sentence C** is introductory as it tells what the paragraph is about, i.e., how shark moves in order to receive life-giving from the water through the grills.
- **Sentence A** follows the **sentence C**, as it is in continuation says the shark that draws water in through their mouth & takes it out through their gills, known as obligate ram ventilators.
- **Sentence A** is followed by **Sentence B**, that tells us about the process of drawing water through the mouth & pushing it out through the gills.
- **Sentence D** is a conclusive sentence that tells about why other sharks remain stationary.

The correct paragraph is-

It is true that many types of sharks must keep moving in order to receive life-giving oxygen from the water passing through their gills. These kinds of sharks are known as obligate ram ventilators because they draw water in through their mouths



and force it out through their gills. They use a method called buccal pumping, in which water is pulled in through the mouth and forced out through the gills by the cheek muscles. Other types of sharks are able to remain stationary because they possess special structures called spiracles, which force water out through their gills.

Question 59 :

Select the most appropriate option to fill in the blank. Sales _____ from day to day

Difficulty : Moderate**Average Time : 100 Seconds****Options :**

1. fluctuate
2. swing
3. revolves
4. rotates

Solution :

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

The meaning of other words is-

- **fluctuate:** rise and fall irregularly in number or amount.
- **swing:** move or cause to move back and forth or from side to side while suspended or on an axis.
- **revolves:** move in a circle on a central axis.
- **rotates:** move or cause to move in a circle around an axis or center.

The correct sentence is-

Sales **fluctuate** from day to day.

Question 60 :

Select the INCORRECTLY spelt word.

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

1. Sovereignty
2. Vivedly
3. Piety
4. Depressed

**Solution :**

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

The correct spelling is **vividly**.

The meaning of the given options is-

- **Sovereignty:** supreme power or authority.
- **Vividly:** in an intensely deep or bright manner.
- **Piety:** the quality of being religious or reverent.
- **Depressed:** in a state of unhappiness or despondency.

Question 61 :

Select the most appropriate option to fill in the blank. Some patches of the _____ garden have a rich cover of grass now.

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. **stroking**
2. **slouching**
3. **sprawling**
4. **stretching**

Solution :

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

The meaning of the given options is-

- **stroking:** to move your hands gently over something.
- **slouching:** to bend downwards.
- **sprawling:** build over a wide area in an ugly way.
- **stretching:** to pull something to make it wider.

The correct sentence is-

*Some patches of the **sprawling** garden have a rich cover of grass now.*

Question 62 :

Select the most appropriate synonym of the given word. Debilitate



Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. Sustain
2. Weaken
3. Animate
4. Vitalise

Solution :

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

The meaning of the given options is-

- **Debilitate:** make (someone) very weak and infirm.
- **Sustain:** strengthen or support physically or mentally.
- **Animate:** give a character the appearance of movement using animation techniques.
- **Vitalise:** give strength and energy to.

The most appropriate synonym for **Debilitate** is **Weaken**.

Question 63 :

Select the option that can be used as a one-word substitute for the given group of words. A large cage, building, or enclosure to keep birds

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. Arena
2. Zoo
3. Aquarium
4. Aviary

Solution :

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

The meaning of the given options is-

- Arena:** A place where sports, entertainment, and another public event are organised.
- **Zoo:** A place where many kinds of animals are 'kept' for people to see.
 - **Aquarium:** A glass container in which fish and other water creatures can be kept.
 - **Aviary:** A large cage, building, or enclosure to keep birds

The most appropriate one-word substitution for "**A large cage, building, or enclosure to keep birds**" is "**Aviary**"

Question 64 :

Select the option that expresses the given sentence in reported speech. "I'll see you later," she said.

Difficulty : Moderate

Average Time : 63 Seconds

Options :

1. She said that she would see me later.
2. She said that she will see you later.
3. She said that she would be seeing me later.
4. She said that she will be able to see you later.

Solution :

The correct answer is **Option 1** i.e. **She said that she would see me later.**

- The given sentence is in **direct speech**.
- **The following steps need to be followed:**
- The **first-person pronoun 'I'** becomes the **third-person pronoun 'she'**.
- The **second-person pronoun 'you'** becomes the **first-person pronoun 'me'**.
- The **commas and inverted commas** are **removed**, and **'that'** is **added**.
- The **future simple tense** format '**Subject + will + V1 (see) + Object**' will be changed into the **simple present tense** format '**Subject + would+ V1(see) +Object**'.

The required indirect speech is-

She said that she would see me later.

Question 65 :

Select the most appropriate meaning of the given idiom. Spick and span

Difficulty : Moderate

Average Time : 79 Seconds

Options :



Noisy and loud

2. Neat and clean

3. Far and near

4. Fast and efficient

Solution :

The correct answer is **Option 2** i.e **Neat and clean**.

The meaning of the idiom, "**Spick and span**" is **Neat and clean**.

One may think, that the given phrase "Spick and span" is all about a nail and chip of wood but that is not the case as idioms are a mode of expressions.

Question 66 :

Select the most appropriate ANTONYM of the given word. Augment

Difficulty : Moderate

Average Time : 48 Seconds

Options :

1. Expand
2. Extend
3. Diminish
4. Spread

Solution :

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

The meaning of the given options is-

- **Augment:** make (something) greater by adding to it..
- **Expand:** become or make larger or more extensive.
- **Extend:** cause to cover a wider area; make larger.
- **Diminish:** make or become less.
- **Spread:** extend over a large or increasing area.

The most appropriate antonym for **Augment** is **Diminish**.

Question 67 :

Select the most appropriate ANTONYM of the given word. Waver



Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. Steady
2. Slant
3. Tilt
4. Sway

Solution :

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

The meaning of the given options is-

- **Waver:** move in a quivering way; flicker.
- **Steady:** firmly fixed; not shaking or moving.
- **Slant:** slope or lean in a particular direction
- **Tilt:** move or cause to move into a sloping position.
- **Sway:** control or influence (a person or course of action).

The most appropriate antonym for **waver** is **steady**.

Question 68 :

Select the most appropriate synonym of the given word. Celebrate

Difficulty : Moderate

Average Time : 54 Seconds

Options :

1. Humiliate
2. Publish
3. Honour
4. Circulate

Solution :

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

The meaning of the other options is-

- **Celebrate:** acknowledge with a social gathering or enjoyable activity.
- **Humiliate:** make (someone) feel ashamed and foolish by injuring their dignity and pride.



- Publish:** prepare and issue (a book, journal, piece of music, etc.) for public sale, distribution, or readership.
- **Honour:** high respect; great esteem.
 - **Circulate:** move continuously or freely through a closed system or area.

The most appropriate synonym for **celebrate** is **honour**.

Question 69 :

The following sentence has been divided into parts. One of them contains an error. Select the part that contains the error from the given options. The construction of / the new business school / is led to / a sudden rise of population in our area.

Difficulty : Moderate

Average Time : 68 Seconds

Options :

1. is led to
2. the new business schoo
3. a sudden rise of population in our area
4. The construction of

Solution :

The correct answer is **Option 1** i.e **is led to**.

- The error lies in the **third part** of the sentence i.e., "**is led to**".
- The use of the verb '**is**' is erroneous in the given part.
- Given sentence is in the **present perfect tense** as it links the past to the present in some or the other way.
- **Past perfect tense:** have/has + the past participle.
- Since the **subject** is **singular**, the **verb** used will also be **singular**.
- **Verb 'is'** should be replaced with **verb 'has'**.

The correct sentence is-

The construction of the new business school has led to a sudden rise in population in our area.

Question 70 :

Select the INCORRECTLY spelt word.

Difficulty : Moderate

Average Time : 72 Seconds

Options :

1. Security



Certain

3. Casheir

4. Imagery

Solution :

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

The correct spelling of the given word is **Cashier**.

The meaning of other options is-

- **Security:** the state of being free from danger or threat.
- **Certain:** able to be firmly relied on to happen or be the case.
- **Cashier:** a person handling payments and receipts in a shop, bank, or business.
- **Imagery:** visual images collectively.

Question 71 :

Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the right order to form a meaningful and coherent paragraph. A. An old mouse, who was wise enough to keep his distance, whispered to a friend, "Many a bag have I seen in my day, but never one with a cat's head". B. She hoped that the mice would no longer be afraid to come near her. C. A cat, grown feeble with age and no longer able to hunt mice as she once did, thought to herself how she might entice them within reach of her paw. D. Thinking that she might pass herself off for a bag or for a dead cat at least, she suspended herself by the hind legs from a peg.

Difficulty : Moderate

Average Time : 85 Seconds

Options :

1. ABDC
2. DCBA
3. CADB
4. CDBA

Solution :

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

- The best way to go about such questions is by finding an opening statement and pairs of sentences.
- **Sentence C** basically **introduces** the main idea of the paragraph, i.e., How the cat plans to entice the mice.

Sentence C is followed by **Sentence D** which talks about how the cat plans to catch the mice.

- **Sentence B** will be the third statement describing how the cat hopes that her idea to catch mice would work.
- **Sentence A** will be a conclusive sentence because it concludes with mice saying “Many a bag have I seen in my day, but never one with a cat's head”

The correct paragraph is-

A cat, grown feeble with age and no longer able to hunt mice as she once did, thought to herself how she might entice them within reach of her paw. Thinking that she might pass herself off for a bag or for a dead cat at least, she suspended herself by the hind legs from a peg. She hoped that the mice would no longer be afraid to come near her. An old mouse, who was wise enough to keep his distance, whispered to a friend, “Many a bag have I seen in my day, but never one with a cat's head”.

Question 72 :

Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select ‘No substitution’. The furniture is ready to be delivered.

Difficulty : Moderate

Average Time : 104 Seconds

Options :

1. are being ready to be delivered
2. are ready to be delivered
3. has ready to be delivered
4. No substitution

Solution :

The correct answer is **Option 4** i.e **No substitution**

- The given sentences need no substitute is required or needed.
- The sentence talks about the fully prepared furniture.
- Furniture is an uncountable noun, hence is not used in the plural. Clearly, furniture is followed by a **singular verb**.
- **Ready** is an **adjective** and is correctly used in the given sentence as it means prepared and able to do something or to be used.
- The given sentence is in the **present simple tense passive voice**.
- The given sentence is in **to be + past participle form** which is correct.

The correct sentence is-

The furniture is ready to be delivered.

Comprehension :

In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank. The word “archaeology” comes from the Greek word “arkhaios,” which means “ancient.” (1)_____ some archaeologists study living cultures, most archaeologists concern (2)_____ with the distant past. People have dug (3)_____ monuments and collected artefacts for thousands of years. (4)_____, these people were not scholars, but looters and grave robbers looking to make money or (5)_____ up their personal collections.

Question 73 :

Select the most appropriate option to fill in blank number 3.

Difficulty : Moderate

Average Time : 94 Seconds

Options :

1. in
2. ahead
3. over
4. up

Solution :

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

The phrasal verb '**dug up**' means **to break the ground into small pieces before planting seeds, building something, etc.**

The correct sentence is-

People have dug **up** monuments and collected artifacts for thousands of years.

Comprehension :

In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank. The word “archaeology” comes from the Greek word “arkhaios,” which means “ancient.” (1)_____ some archaeologists study living cultures, most archaeologists concern (2)_____ with the distant past. People have dug (3)_____ monuments and collected artefacts for thousands of years. (4)_____, these people were not scholars, but looters and grave robbers looking to make money or (5)_____ up their personal collections.

Question 74 :

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

Difficulty : Moderate

Average Time : 69 Seconds



Options :

1. Commonly
2. Often
3. Regularly
4. Seldom

Solution :

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

The meaning of the given options is-

- **Commonly:** usually
- **Often:** many times on different occasions
- **Regularly:** at regular interval
- **Seldom:** not very often

The sentence is basically implying that people who collect artifacts by digging up monuments were mostly looters and robbers.

The correct sentence is-

Often these people were not scholars, but looters and grave robbers looking to make money or build up their personal collections.

Comprehension :

In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank. The word "archaeology" comes from the Greek word "arkhaios," which means "ancient." (1)_____ some archaeologists study living cultures, most archaeologists concern (2)_____ with the distant past. People have dug (3)_____ monuments and collected artefacts for thousands of years. (4)_____, these people were not scholars, but looters and grave robbers looking to make money or (5)_____ up their personal collections.

Question 75 :

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

Difficulty : Moderate

Average Time : 81 Seconds

Options :

1. construct
2. assemble



build

4. create

Solution :

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

The meaning of the given is-

- **construct:** build or make
- **assemble:** gather together in one place for a common purpose
- **build:** construct (something) by putting parts or material together.
- **create:** bring (something) into existence.

Build is the most appropriate filler for the given blank both contextually and grammatically.

The correct sentence is-

Looters and grave robbers looking to make money or **build** up their personal collections.

Question 76 :

Point P, Q, R, S and T lie in this order on a circle with centre O. If chord TS is parallel to diameter PR and $\angle RQT = 58^\circ$, then find the measure (in degrees) of $\angle RTS$.

Difficulty : Moderate

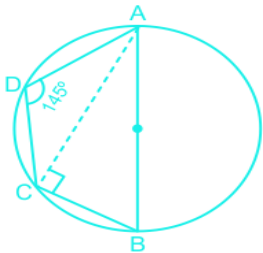
Average Time : 66 Seconds

Options :

1. 29
2. 32
3. 45
4. 58

Solution :

The correct answer is **Option 2** i.e 32.



$$\angle RQT = \angle RPT = 58^\circ \text{ (Angle on the segment)}$$

$$\angle PTR = 90^\circ \text{ (angle in a semi-circle is equal to } 90^\circ \text{)}$$

$$\angle PRT = 180 - 90 - 58 = 32^\circ$$

$$\angle RTS = \angle PRT = 32^\circ \text{ (Alternate interior angle).}$$

Question 77 :

If $\sin A = 1/2$, A is an acute angle, then find the value of $(\frac{\tan A - \cot A}{\sqrt{3(1 + \operatorname{cosec} A)}})$

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

1. $\frac{4\sqrt{3}}{9}$
2. $2/9$
3. $-\frac{2}{9}$
4. $-\frac{4\sqrt{3}}{9}$

Solution :

The correct answer is **Option 3** i.e. $-\frac{2}{9}$.

$$\sin A = 1/2$$

$$\sin A = \sin 30^\circ$$

$$A = 30^\circ$$

$$\text{Now, } \left(\frac{\tan A - \cot A}{\sqrt{3(1 + \operatorname{cosec} A)}}\right) = \left(\frac{\tan 30^\circ - \cot 30^\circ}{\sqrt{3(1 + \operatorname{cosec} 30^\circ)}}\right)$$

$$\left(\frac{\frac{1}{\sqrt{3}} - \sqrt{3}}{\sqrt{3(1 + 2)}}\right)$$

$$-\frac{2}{9}$$

Question 78 :

In $\triangle ABC$, AD is the bisector of A meeting BC at D . If $AC = 21\text{cm}$, $BC = 11\text{cm}$ and the length of BD is 3 cm less than DC , then the length (in cm) of side AB is:

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

1. 10

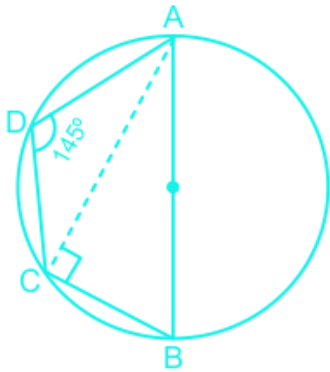
15

3. 18

4. 12

Solution :

The correct answer is **Option 4** i.e **12**.



Let $BD = x$ so DC becomes $x + 3$.

$$BC = 11\text{cm}$$

$$2x + 3 = 11$$

$$x = 4.$$

By using the angle bisector theorem one gets,

$$AB/BD = AC/DC$$

$$AB = (AC \times BD)/DC$$

$$AB = (21 \times 4)/7 = \mathbf{12\text{ cm.}}$$

Question 79 :

In $\triangle ABC$, $AD \perp BC$ at D and AE is the bisector of A . If $B = 62^\circ$ and $C = 36^\circ$, then what is the measure of DAE ?

Difficulty : Moderate

Average Time : 54 Seconds

Options :

1. 23°

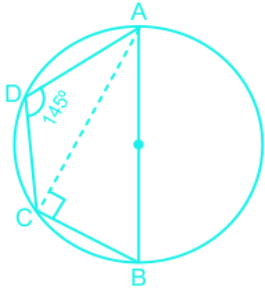
2. 27°

54°

4. 13°

Solution :

The correct answer is **Option 4** i.e **13°**.



Here AE is the angle bisector of $\angle A$

$$\angle A + \angle B + \angle C = 180^\circ$$

$$\angle A = 180 - 62 - 36 = 82^\circ.$$

$$\angle BAE = \angle EAC = 41^\circ.$$

$$\angle BAD = 180 - 62 - 90 = 28^\circ.$$

$$\angle DAE = 41 - 28 = 13^\circ.$$

Question 80 :

For $0^\circ < \theta < 90^\circ$, $(\cos \theta + \tan \theta - \sec \theta)$ is equal to:

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. sec
2. - sec
3. - tan
4. tan

Solution :

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

$$\left(\frac{1}{\cos \theta} + \frac{1}{\tan \theta} - \sec \theta \right)$$

$$\left(\frac{1}{\cos \hat{I}_2} + \frac{1}{\frac{\sin \hat{I}_2}{\cos \hat{I}_2} - \frac{1}{\cos \hat{I}_2}}\right)$$

$$\left(\frac{1}{\cos \hat{I}_2} + \frac{\cos \hat{I}_2}{\sin \hat{I}_2 - 1}\right)$$

$$\left(\frac{\sin \hat{I}_2 - 1 + \cos^2 \hat{I}_2}{\cos \hat{I}_2 \times (\sin \hat{I}_2 - 1)}\right)$$

$$\left(\frac{\sin \hat{I}_2 - \sin^2 \hat{I}_2}{\cos \hat{I}_2 \times (\sin \hat{I}_2 - 1)}\right)$$

$$\left(\frac{\sin \theta}{-\cos \theta}\right) = -\tan \theta$$

Question 81 :

What is the volume (in cm³) of a spherical shell whose inner and outer radii are respectively 2 cm and 3 cm?

Difficulty : Moderate

Average Time : 68 Seconds

Options :

1. $\frac{86 \pi}{3}$
2. $\frac{56 \pi}{3}$
3. $\frac{106 \pi}{3}$
4. $\frac{76 \pi}{3}$

Solution :

The correct answer is **Option 4** i.e. $\frac{76 \pi}{3}$.

The volume of a hollow sphere = $\frac{4}{3} \pi (R^3 - r^3)$

Required volume = $\frac{4}{3} \pi (3^3 - 2^3) = \frac{76 \pi}{3}$

Question 82 :

Table shows District-wise data of the number of primary school teachers posted in schools of a city. Study the table and answer the question: District Male teachers Female teachers East 1650 2375 North 1075 2651 West 1280 1520 South 1170 1085 Central 690 859 What is the average number of female teachers in the five districts?

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. 1690
2. 2871
3. 1698
4. 1173

Solution :

The correct answer is **Option 3** i.e **1698**.

Sum of the number of female teacher in all district = $2375 + 2651 + 1520 + 1085 + 859 = 8490$.

The average number of female teachers in all five districts = $8490/5 = 1698$.

Question 83 :

Find the smallest value of a so that $42a48b$ ($a > b$) is divisible by 11.

Difficulty : Moderate**Average Time : 39 Seconds****Options :**

1. 9
2. 4
3. 5
4. 0

Solution :

The correct answer is **Option 3** i.e **5**.

Divisibility Rule of 11 says that, if the difference between the sum of digits at an even place and the sum of the digits at an odd place is divisible by 11 then the given number must be divisible by 11.

Required difference = $(8 + a + 4) - (b + 4 + 2)$

$12 + a - b - 6$

$a - b + 6$

At $a = 5$ and $b = 0$ the given condition satisfy.

The smallest value of a will be 5.

Question 84 :

Pie-chart shows the distribution of the percentage of students in various courses. The total number of students is 1400
Percentage-wise distribution of the number of boys: Course Number of boys B.Sc Maths 40% B.Sc Physics 68% B.Sc Chem 58% B.Sc C.Sci 80% B. Com 75% BBA 65% What is the ratio of number of girls B. SC. Maths to number of boys in B. Sc. C. Sci.?

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

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

Solution :The correct answer is **Option 3** i.e **3 : 5**.

Course	Percentage of number of students	Number of students	Percentage of Boys
B.B.A	13%	182	65%
B.Sc maths	20%	280	40%
B.Sc physics	10%	140	68%
B.Sc chemistry	12%	168	58%
B.Sc C sci	25%	350	80%
B.Com	20%	280	75%

The number of girls in B.Sc maths = 60% of total

$$60/100 \times 280 = 168$$

The number of Boys In B.Sc C sci = 80% of 350 = 280

Required ratio = 168 : 280 = **3 : 5**.**Question 85 :**

In a class, the ratio of rural to urban students is 4 : 7. In the examination, the average percentage marks of the rural and the urban students are respectively 65 and 63. What is the overall percentage marks of the class (correct to two decimal places)?

Difficulty : Moderate**Average Time : 82 Seconds**

**Options :**

1. 63.73%
2. 65.87%
3. 64.37%
4. 73.63%

Solution :

The correct answer is **Option 1** i.e **63.73%**.

Let the number of rural and urban students be $4x$ and $7x$.

Here it is given that the average percentage marks of the rural and the urban students are respectively 65 and 63.

One knows that,

Average = Sum of observation/number of observations.

Average marks of the class = $(4x \times 65 + 7x \times 63)/11x$

$(260x + 441x)/11x$

$701x/11x = 63.727\%$

63.73%

Question 86 :

if $x^2 - (\sqrt{11x+1})=0$, then $(x^3 + x-3)=$

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. $\sqrt[8]{11}$
2. $\sqrt[10]{11}$
3. $\sqrt[4]{11}$
4. $\sqrt[7]{11}$

Solution :

The correct answer is **Option 1** i.e $\sqrt[8]{11}$.

$x^2 - (\sqrt{11x+1})=0$



on dividing by x on both sides one gets,

$$x + 1/x - \sqrt{11} = 0$$

$$x + 1/x = \sqrt{11}$$

On cubing both side we get

$$(x + 1/x)^3 = (\sqrt{11})^3$$

$$x^3 + 1/x^3 + 3 \times \sqrt{11} = 11\sqrt{11}$$

$$x^3 + 1/x^3 = 8\sqrt{11}.$$

Question 87 :

Rajan spent 10% of his salary on rent. He spent 20% of the remaining part of his salary on transport. After this, he spent 40% of the balance of his salary on food. Further, he spent 80% of the balance on various bills. He deposits Rs.5000 in the bank and kept the remaining Rs.1480 for his own petty expenditure. Find his monthly salary (in Rs.).

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

1. 75000
2. 80000
3. 64800
4. 82500

Solution :

The correct answer is **Option 1** i.e **75000**.

Let the monthly salary of Rajan = $100x$

Money spent on Rent = 10% of salary = $10x$

Remaining money = $90x$

Money spent on transport = 20% of $90x = 18x$

Remaining money = $72x$

Money spent on food = 40% of $72x = 28.8x$

Remaining money = $43.2x$

Money spent on various bills = 80% of $43.2 = 34.56x$

Remaining money = 8.64%

Now this $8.64x = 5000 + 1480$

$$8.64x = 6480$$

$$x = 750$$

Total monthly salary = $750 \times 100 = 75000$

Question 88 :

If $(x + y)^3 + 27(x - y)^3 = (Ax - 2y)(Bx^2 + Cxy + 13y^2)$, then the value of $A - B - C$ is :

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. 27
2. 13
3. 15
4. 20

Solution :

The correct answer is **Option 2** i.e **13**.

we know that, $x^3 + y^3 = (x + y)(x^2 - xy + y^2)$

$$(x + y)^3 + 27(x - y)^3 = (Ax - 2y)(Bx^2 + Cxy + 13y^2)$$

$$(x + y)^3 + (3x - 3y)^3 = (Ax - 2y)(Bx^2 + Cxy + 13y^2)$$

$$(x + y + 3x - 3y)[(x + y)^2 + (3x - 3y)^2 - (x + y)(3x - 3y)] = (Ax - 2y)(Bx^2 + Cxy + 13y^2)$$

$$(4x - 2y)[x^2 + 9x^2 - 3x^2 + y^2 + 9y^2 + 3y^2 + 2xy - 18xy] = (Ax - 2y)(Bx^2 + Cxy + 13y^2)$$

$$(4x - 2y)[7x^2 + 13y^2 - 16xy] = (Ax - 2y)(Bx^2 + Cxy + 13y^2)$$

On comparing LHS and RHS one gets,

$$A = 4, B = 7 \text{ and } C = 16$$

$$\text{Now } A - B - C = 4 - 7 + 16 = 13.$$

Question 89 :

Solve the given eq: $(5\sqrt{15} \cdot [3\sqrt{\frac{1}{2}} - \sqrt{\frac{5}{6}} - \{(\sqrt{\frac{3}{5}} + \sqrt{\frac{1}{10}} - \sqrt{\frac{4}{15}})\}])$

**Difficulty : Moderate****Average Time : 82 Seconds****Options :**

1. 22/167
2. 156/67
3. 122/167
4. 74/155

Solution :The correct answer is **Option 2** i.e **156/67**.
$$= \left(5\frac{15}{5} \div \left[3\frac{1}{2} - \left(\frac{5}{6} - \left(\frac{3}{5} + \frac{1}{10} - \frac{4}{15}\right)\right)\right]\right)$$
 can be written as,

$$= 26/5 \div [7/2 - 5/6 - (3/5 + 1/10 - 4/15)]$$

$$= 26/5 \div [7/2 - 5/6 - (18 + 3 - 8)/30]$$

$$= 26/5 \div [7/2 - 5/6 - 13/30]$$

$$= 26/5 \div [(105 - 25 - 13)/30]$$

$$= 26/5 \div [67/30]$$

$$= 26/5 \times 30/67 = 156/67$$

Question 90 :

In the table, production and sale (in 1000 tonnes) of a certain product of a company over 5 years is given. years

Production (in 1000 tonnes)	Sale (in 1000 tonnes)	2015	1250	1000	2016	1400	1290	2017	1450	1100	2018	1500	1450	2019	1600	1390
-----------------------------	-----------------------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

In which year (s) the sale increases by more than 25% of the previous year?

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

1. 2018
2. 2017 and 2019
3. 2016 and 2018
4. 2017

Solution :The correct answer is **Option 3** i.e **2016 and 2018**.



One can solve this question by observing the data.

In 2015, sales = 1000 tones.

In 2016, sales = 1290

25% of 1000 = 250 tones

1290 - 1000 = 290 tones which is more than 250 tonnes.

Similarly,

In 2017, sales = 1100

In 2018, sales = 1450

25% of 1100 = 275 tones

1450 - 1100 = 350 tones which is more than 275 tonnes.

So one can say that in 2016 and 2018 sales increases by more than 25%.

Question 91 :

A borrowed a sum of Rs.160000 from B at 10% per annum simple interest. At the same time, he lent the same sum to C at the same rate on compound interest, compounded semi-annually for 2 years. Find the amount (in Rs) earned by A in the whole transaction.

Difficulty : Moderate

Average Time : 60 Seconds

Options :

1. 4281
2. 4280
3. 2481
4. 2840

Solution :

The correct answer is **Option 3** i.e 2481.

A borrowed a sum of Rs.160000 from B at 10% per annum simple interest

Interest paid by A to be at the end of 2 years = $160000 \times 20/100 = \text{Rs.}32000$

A lent the same amount to C at the same rate on compound interest, compounded semi-annually for 2 years.

The amount received by A at the end of 2 years from C = $160000(1 + 5/100)^4 = \text{Rs.}194481$

Interest earned by from C = $(194481 - 160000) = \text{Rs.}34481$

Amount earned by A in this whole transaction = $(34481 - 32000) = \text{Rs.}2481$

Question 92 :

A train running at 72 km/h crosses a pole in 12 seconds. How much time (in seconds) will it take to cross a bridge 360 m long?

Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. 40
2. 75
3. 60
4. 30

Solution :

The correct answer is **Option 4** i.e. **30** sec.

Speed of the train in m/sec = $72 \times \frac{5}{18} = 20$ m/sec.

Length of the train = Speed \times time = $20 \times 12 = 240$ m

Time = Total distance/speed

Time taken by train to cross the bridge = (Length of train + length of platform)/speed

$(240 + 360)/20 = \mathbf{30 \text{ sec.}}$

Question 93 :

The marked price of an article is ₹12720. If a shopkeeper sold the article at 15% loss after giving 25% discount, then the cost price (in ₹) of the article is:

Difficulty : Moderate

Average Time : 48 Seconds

Options :

1. 2000
2. 2400
3. 1800
4. 1200

Solution :

The correct answer is **Option 2** i.e $2400\sqrt{3}$.

Discount offered = 25%

Selling price = $2720 \times 75/100 = \text{Rs } 2040$

There is a loss of 15% so,

Cost price of an article = $2040 \times 100/85 = \text{Rs } 2400$

Question 94 :

If $(\cos \theta - \sin \theta = \sqrt{3} \cos (90^\circ - \theta), 0^\circ < \theta < 90^\circ)$ then find the value of $\tan \theta - \cot \theta$.

Difficulty : Moderate

Average Time : 40 Seconds

Options :

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

Solution :

The correct answer is **Option 2** i.e $-\frac{3-2\sqrt{3}}{1+\sqrt{3}}$

$$(\cos \theta - \sin \theta = \sqrt{3} \cos (90^\circ - \theta), 0^\circ < \theta < 90^\circ)$$

$$(\cos \theta - \sin \theta = \sqrt{3} \sin \theta)$$

$$(\cos \theta = \sin \theta (\sqrt{3} + 1) \implies \cot \theta = \sqrt{3} + 1)$$

$$(\cot \theta = \sqrt{3} + 1)$$

$$\tan \theta - \cot \theta = \frac{1}{\sqrt{3} + 1} - (\sqrt{3} + 1)$$

On further simplification one gets,

$$\tan \theta - \cot \theta = -\frac{3-2\sqrt{3}}{1+\sqrt{3}}$$

Question 95 :



If $x^8 - 433x^4 + 16 = 0$, $x > 0$, then what is the value of $(x + \frac{2}{x})$?

Difficulty : Moderate

Average Time : 70 Seconds

Options :

1. 7

2. 4

3. 5

4. 9

Solution :

The correct answer is **Option 3** i.e 5.

Given that, $x^8 - 433x^4 + 16 = 0$

On dividing LHS and RHS by x^4 one gets,

$$x^4 - 433 + 16/x^4 = 0$$

$$x^4 + 16/x^4 = 433$$

$$x^4 + 16/x^4 + 8 = 433 + 8$$

$$(x^2 + 4/x^2)^2 = 441$$

$$x^2 + 4/x^2 = 21$$

$$x^2 + 4/x^2 + 4 = 21 + 4$$

$$(x + 2/x)^2 = 25$$

$$(x + 2/x) = 5$$

Question 96 :

There are two water taps in tank which can fill the empty tank in 12 hours and 18 hours respectively. It is seen that there is a leakage point at the bottom of the tank which can empty the completely filled tank in 36 hours. If both the water taps are opened at the same time to fill the empty tank and the leakage point was repaired after 1 hour, then in how much time the empty tank will be completely filled?

Difficulty : Moderate

Average Time : 78 Seconds

Options :

1. 7 hours



8 hours 24 minutes

3. 7 hours 24 minutes

4. 7 hours 12 minutes

Solution :

The correct answer is **Option 3** i.e **7 hours 24 minutes**.

P_1 can fill the empty tank in 12 hours.

P_2 can fill the empty tank in 18 hours.

P_3 can empty the full tank in 36 hours.

Total work = LCM of (12 , 18 , 36) = 36 units.

Efficiency of $P_1 = 36/12 = 3$ units/hours.

Efficiency of $P_2 = 36/18 = 2$ units/hours.

Efficiency of $P_3 = 36/36 = 1$ units/hours.

In the first hour, amount of water fill in the tank = $3 + 2 - 1 = 4$ units.

Remaining work = $36 - 4 = 32$ units.

Time is taken by pipes P_1 and P_2 to fill 32 units of water in a tank = $32 / 5 = 6$ hours 24 minutes.

Total time taken to fill the tank = **7 hours 24 minutes**.

Question 97 :

The given Pie-chart shows the degree wise breakup of expenditure of a family in a mont. Total income of a family is $\hat{a},143200$. The amount spent on food is what percent of the savings and miscellaneous expenses?

Difficulty : Moderate

Average Time : 81 Seconds

Options :

1. 84%

2. 60%

3. 75%

4. 90%

Solution :



The correct answer is **Option 1** i.e **84%**.

$$\text{Amount of money spent on food} = \left(\frac{105}{360}\right) \times 43200 = 12600$$

$$\text{Amount of money spent on savings} = \left(\frac{80}{360}\right) \times 43200 = 9600$$

$$\text{Amount of money spent on miscellaneous} = \left(\frac{45}{360}\right) \times 43200 = 5400$$

$$\text{Required percentage} = 12600/15000 \times 100 = \mathbf{84\%}$$

Question 98 :

What is the difference in the mean proportional between 1.8 and 3.2 and the third proportional to 5 and 3?

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

1. 0.7

2. 0.4

3. 0.5

4. 0.6

Solution :

The correct answer is **Option 4** i.e **0.6**.

Let the mean proportional of 1.8 and 3.2 be x

$$x^2 = 1.8 \times 3.2 = 5.76$$

$$x = 2.4$$

Let the third proportional to 5 and 3 be a.

$$5 : 3 :: 3 : a$$

As one knows that the product of extremes is equal to the product of means.

$$5 \times a = 3 \times 3$$

$$a = 1.8$$

$$\text{Required difference} = 2.4 - 1.8 = \mathbf{0.6}$$

Question 99 :

A shopkeeper bought 20 kg of sugar at â,145 per kg, 25 kg of sugar at â,150 per kg and 35kg of sugar at â,140 per kg. He spent a sum of â,1450 on transportation and other expenses. He mixed all the three types of sugar and sold all the stock



at ₹152.50 per kg. His profit percent in the entire transaction is:

Difficulty : Moderate

Average Time : 60 Seconds

Options :

1. 5%
2. 4.25%
3. 6.5%
4. 7.25%

Solution :

The correct answer is **Option 1** i.e **5%**.

Total Cost of 20 kg sugar at Rs 45 per kg = $20 \times 45 = \text{Rs } 900$.

Total cost of 25 kg of sugar at Rs 50 per kg = $25 \times 50 = \text{Rs } 1250$.

Total cost of 35kg of sugar at Rs 40 per kg = $35 \times 40 = \text{Rs } 1400$.

Total cost = $3550 + 450 = \text{Rs } 4000$.

The total selling price of the whole sugar = $80 \times 52.5 = \text{Rs } 4200$.

Profit % = $200/4000 \times 100 = 5\%$

Question 100 :

ABCD is a cyclic quadrilateral such that AB is the diameter of the circle and $\angle ADC = 145^\circ$, then what is the measure of $\angle BAC$?

Difficulty : Moderate

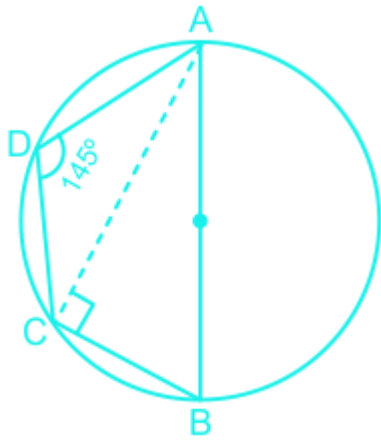
Average Time : 52 Seconds

Options :

1. 65°
2. 45°
3. 55°
4. 35°

Solution :

The correct answer is **Option 3** i.e **55°** .



As one knows that the sum of the opposite angle in a cyclic quadrilateral is 180° .

$$\text{So } \angle ABC = 180 - 145 = 35^\circ$$

One also knows that the sum of the angle in a semicircle is 90° .

$$\text{So } \angle ACB = 90^\circ.$$

The sum of the interior angle of a triangle is 180° .

$$\angle BAC = 180 - 90 - 35 = 55^\circ$$

Ssc Cgl Tier I Previous Year Question Paper Analysis

The analysis of Ssc Cgl Tier I Previous Year Question Paper held on 2021-08-17 in the Afternoon 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. 20 questions should have been skipped if you were short of time.

Ssc Cgl Tier I Previous Year Question Paper Topic Wise Weightage

Logical Reasoning



- Coding Decoding - 2
- 2. Mirror Image - 1
- 3. Analogy - 4
- 4. Classification - 3
- 5. Blood Relations - 1
- 6. Syllogism - 1
- 7. Venn Diagrams - 1
- 8. Dictionary Based - 1
- 9. Figure Based - 1
- 10. Matrix - 1
- 11. Series - 3
- 12. Mathematical Reasoning - 2
- 13. Cubes And Dice - 1
- 14. Embedded Figure - 1
- 15. Counting Figures - 1
- 16. Seating Arrangement And Puzzle - 1

General Awareness

- 1. History - 3
- 2. Polity - 2
- 3. Economics - 1
- 4. Science - 4
- 5. GK Misc - 15

English Language

- 1. Vocab - 4
- 2. Cloze Test - 5
- 3. Spotting Error - 1
- 4. Parajumbles - 2
- 5. Idioms - 2
- 6. One Word Substitution - 2
- 7. Fillers - 2
- 8. Narration - 1
- 9. Voice - 1
- 10. Sentence Improvement - 3
- 11. Incorrectly Spelt - 2

Incorrectly Spelt - 2

Quantitative Aptitude

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

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Further Guidance on Ssc Cgl Tier I Previous Year Question Paper

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