

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 2020-03-05 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 :

The 'Hyderabad Fund' had been held by the _____ in the account of the High Commissioner of Pakistan to the UK, Habib Ibrahim Rahimtoola

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. Bank of England
2. National Westminster Bank
3. Butterfield Private Bank
4. Kingdom Bank

Solution :

The correct answer is **option 2** i.e **National Westminster Bank**.

- The Nizam's descendants, Prince Mukarram Jah – the titular eighth Nizam of Hyderabad – and his younger brother Muffakham Jah joined hands with the Indian government in the legal battle against the Pakistan government over around GBP 35 million lying with NatWest Bank plc in London.

Question 2 :



To complete a certain task, X is 40 % more efficient than Y, and Z is 40% less efficient than Y. Working together, they can complete the task in 21 days. Y and Z together worked for 35 days. The remaining work will be completed by X alone in:

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. 8 days
2. 4 days
3. 6 days
4. 5 days

Solution :

The correct answer is **option 4** i.e **5 days**

Explanation:

Efficiency of X = 140% of Y = 1.4Y

Efficiency of Z = 60% of Y = 0.6Y

Efficiency of X, Y and Z = 1.4 : 1 : 0.6 = 7 : 5 : 3

They can complete the task in 21 days so,

Total work = sum of efficiency ratio \times times = $(7 + 5 + 3) \times 21 = 315$

Y and Z together worked for 35 days so,

Work done by Y and Z = $(5 + 3) \times 35 = 280$

Remaining work = $315 - 280 = 35$

Remaining work complete by X = work/efficiency = $35/7 = 5$ days

Question 3 :

Part VIII of the Constitution of India deals with _____.

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. States
2. Municipalities



Union Territories

4. Panchayats

Solution :

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

- The Constitution of India is the supreme law of India.
- Part VIII of the Constitution of India deals with Union Territories.

Question 4 :

The given table represents the sale (in thousands) of cars by four companies A, B, C and in six years. Study the table and answer the question that follows. Company A B C D Year 2013 45 63 65 67 2014 52 49 60 69 2015 61 60 66 67 2016 72 58 70 63 2017 52 53 63 75 2018 3 67 76 74 The total number of cars sold by company B during 2015, 2017 and 2018 is what percentage less than the total number of cars sold by company C in 2013, 2015, 2017 and 2018?

Difficulty : Moderate

Average Time : 58 Seconds

Options :

1. $16\frac{2}{3}$
2. $33\frac{1}{3}$
3. 50
4. 40

Solution :

The correct answer is **option 2** i.e. $33\frac{1}{3}$

Explanation:

The total number of cars sold by company B during 2015, 2017 and 2018 = 60 + 53 + 67 =

180

The total number of cars sold by company C in 2013, 2015, 2017 and 2018 = 65 + 66 + 63 +

76 = 270

Required percentage = $((270 - 180)/(270) \times 100 = 33(1/3)$

Question 5 :

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

Difficulty : Moderate

Average Time : 58 Seconds

Options :

1. NRW
2. PTY
3. ADL
4. LPU

Solution :

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

Understanding

The logic used here is:

Option 1: NRW

$$N + 4 = R$$

$$R + 5 = W$$

Option 2: PTY

$$P + 4 = T$$

$$T + 5 = Y$$

Option 3: ADL

$$A + 3 = D$$

$$D + 8 = L$$

Option 4: LPU

$$L + 4 = P$$

$$P + 5 = U$$

Hence, **option 3** is the odd one out.

Question 6 :

Select the SYNONYM of the given word. VIOLENT

Difficulty : Moderate

Average Time : 60 Seconds

Options :

1. Kind
2. Aggressive
3. Calm
4. Mild

Solution :

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

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



- Violent**- using physical strength to hurt or kill somebody; caused by this behavior.
2. **Kind**- a group whose members all have the same qualities.
 3. **Aggressive**- ready or likely to fight or argue.
 4. **Calm**- not excited, worried or angry; quiet.
 5. **Mild**- not strong; not very bad.

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

Question 7 :

Select the ANTONYM of the given word. ALLURE

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. Revive
2. Repulse
3. Rewind
4. Attract

Solution :

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

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

1. **Allure**- the quality of being attractive and exciting.
2. **Revive**- to become or to make something popular again; to begin to do or use something again.
3. **Repulse**- drive back (an attack or attacker) by force.
4. **Rewind**- to make a video or cassette tape go backwards.
5. **Attract**- to cause somebody/something to go to something or give attention to something.

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

Question 8 :

Select the correct indirect form of the given sentence. "Hello", he said to his friend, "What can I do for you?"

Difficulty : Moderate

Average Time : 67 Seconds

Options :

1. He asked and greeted his friend that what he can do for him.
2. He greeted his friend and asked what he could do for him.

He told hello and asked his friend what he could do for him.

4. He said hello and asked his friend what can do for him.

Solution :

The correct answer is **option 2** i.e. **He greeted his friend and asked what he could do for him.**

- As the reported speech is in "**Interrogative sentence**" we need to make changes according to this.
- There will be a change in the reporting verb and it will be changed into "**Asked**".
- We need to use the verb "**Greeted**" because of "**Hello**".
- "**What**" will be used at the place of the "**Inverted comma**".
- "**Can**" will be changed into "**Could**".
- The reported speech will be kept in an assertive structure "**Subject + verb + object**".

As all the rules are followed by the chosen option it will be correct.

Question 9 :

Pointing to the photograph of Sanchi, Nitin said, "Her mother's father's son's wife is my mother-in-law's only daughter". How is Nitin related to Sanchi's mother?

Difficulty : Moderate

Average Time : 88 Seconds

Options :

1. Paternal uncle
2. Paternal grandfather
3. Maternal uncle
4. Brother

Solution :

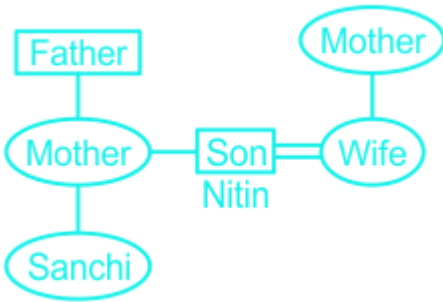
The correct answer is **option 4** i.e **Brother.**

Understanding

Application

In the diagram shown;

Square shows males, the circle shows females, vertical lines show generations, single horizontal line shows brother or sisters and double lines show a couple.



Thus considering the figure, Nitin is the brother of Sanchi's mother.

Considering all the four options the most appropriate is option 4.

Question 10 :

How many triangles are there in the given figure?

Difficulty : Moderate

Average Time : 63 Seconds

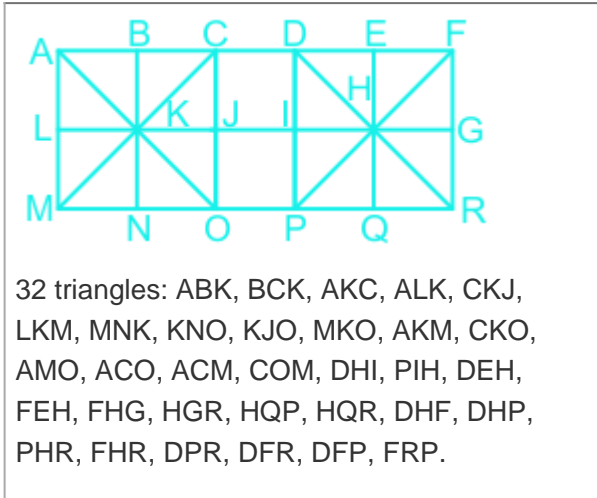
Options :

1. 34
2. 33
3. 32
4. 35

Solution :

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

Understanding



32 triangles: ABK, BCK, AKC, ALK, CKJ, LKM, MNK, KNO, KJO, MKO, AKM, CKO, AMO, ACO, ACM, COM, DHI, PIH, DEH, FEH, FHG, HGR, HQP, HQR, DHF, DHP, PHR, FHR, DPR, DFR, DFP, FRP.

Question 11 :

The Indian Army is set to commission the first batch of women soldiers by year _____.

Difficulty : Moderate

Average Time : 53 Seconds

Options :

- 1. 2020
- 2. 2022
- 3. 2021
- 4. 2023

Solution :

The correct answer is **option 3** i.e **2021**.



- The Indian Army has announced that the first batch of 100 women soldiers in the Army is likely to be commissioned by March 2021.
- The women soldiers will be commissioned into the Corps of Military Police of the Indian Army.
- In the Corps of Military Police, women soldiers will take up duties of policing cantonments and other Army establishments.
- They will also work in co-operation with civil police of various state governments as well as the Centre and will also investigate cases of crime.

Question 12 :

Given below are four jumbled sentences. Select the option that gives their correct order. A. Although I had a fear of water, I thought it was an important skill I should learn. B. However, what I didn't realize was that it would also make me a more confident person. C. I also thought it would be a good exercise that would make me physically stronger. D. One of the hardest things I've had to do was to learn how to swim.

Difficulty : Moderate

Average Time : 76 Seconds

Options :

1. DCBA
2. DACB
3. BADC
4. ACDB

Solution :

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

- **Statement D** is independent and defines the theme of the paragraph "**How to swim**" hence, it will be the opening statement.
- **Statement A** is talking about the importance of swimming hence, it will come after D.
- **Statement C** again adds the information on why one should learn **swimming** hence, it will come after A.
- **Finally, B** will come at the end of the statement.



Now we have the final arrangement i.e. **DACB**.

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

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

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

Question 13 :

Select the CORRECTLY spelt word.

Difficulty : Moderate

Average Time : 95 Seconds

Options :

1. **Beaureacracy**
2. **Reimbursement**
3. **Surveliance**
4. **Recrutment**

Solution :

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

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

1. **Bureaucracy**- a system of government by a large number of officials who are not elected; a country with this system.
2. **Reimbursement**- the act of compensating someone for an out-of-pocket expense by giving them an amount of money equal to what was spent.
3. **Surveillance**- the monitoring of behavior, activities, or information for the purpose of information gathering, influencing, managing or directing.
4. **Recruitment**- the process of finding people to work for a company or become a new member of an organization.

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

Question 14 :

Select the CORRECTLY spelt word.



Difficulty : Moderate

Average Time : 65 Seconds

Options :

1. Definition
2. Competiter
3. Proliferete
4. Beneficiary

Solution :

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

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

1. **Definition**- (used to show place) inside or to a position inside a particular area or object.
2. **Competitor**- a person or organization that is competing against others.
3. **Proliferate**- to increase quickly in number.
4. **Beneficiary**- a person who gains as a result of something, especially money or property when somebody dies.

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

Question 15 :

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 follow from the statements. Statements: 1. Some papers are copies. 2. No copy is an eraser. Conclusions: I. Some copies are papers. II. Some papers are erasers. III.No paper is an eraser.

Difficulty : Moderate

Average Time : 73 Seconds

Options :

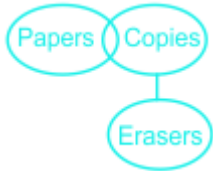
1. Only conclusions I and III follow.
2. Only conclusions I and II follow.
3. Only conclusions II and either Conclusion I or III follow.
4. Only conclusion I and either conclusion II or III follow.

Solution :

The correct answer is **option 4 i.e Only conclusion I and Either conclusion II or III follow.**

Understanding

The least possible Venn diagram is shown below:



Conclusions:

I. Some copies are papers: **True** (As, some paper are copies, so some copies are papers is true).

II. Some papers are erasers: **False** (This is possible but not definite, as no direct relationship between the two is given).

III. No paper is an eraser: **False** (This is possible but not definite, as no direct relationship between the two is given).

Hence, **Only Conclusion I and Either Conclusion II or III follows.**

Question 16 :

Select the option that is related to the third number in the same way as the second number is related to the first number. 4: 69:: 11:?

Difficulty : Moderate

Average Time : 87 Seconds

Options :

1. 1336
2. 176
3. 198
4. 1029

Solution :

The correct answer is **option 1** i.e 1336.

Understanding	Application
The logic used here is: 2nd number = (1st number) ³ + 5 4: 69 4 ³ + 5 = 69	Similarly, 11:? 11³ + 5 = 1336 Hence, option 1 is the correct answer.

Question 17 :

In a certain code language, 'CAUGHT' is coded as '326212087'. How will 'SOLDER' be coded as in that language?

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. 1915124359
2. 1812122459
3. 1912122359
4. 2012152358

Solution :

The correct answer is **option 3** i.e **1912122359**.

Understanding	Application
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The logic used here is: 'CAUGHT' is coded as '326212087' C 3 A Opposite of A = Z = 26 U = 21 G Opposite of G = T = 20 H = 8 T Opposite of T = G = 7	Similarly, Code for the word SOLDER: S 19 O Opposite of O = L = 12 L = 12 D Opposite of D = W = 23 E = 5 R Opposite of R = I = 9 SOLDER 19121223519 Hence, option 3 is the correct answer.
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Question 18 :

Select the letter-cluster that can replace the question mark (?) in the following series. AR, CP, ?, GL, IJ, KH

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

1. EM
2. EN
3. DN
4. DM

Solution :

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

Understanding

Given series: AR, CP, ?, GL, IJ, KH

The logic used here is:

AR, CP

$A + 2 = C$

$R - 2 = P$

Similarly,

CP, ?

$C + 2 = E$

$P - 2 = N$

The missing term in the series is **EN**.

Hence, option 2 is the correct answer.

Question 19 :

Select the option that expresses the given sentence in passive voice. They are constructing a residential youth hostel.

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. A residential youth hostel has been constructed by them.
2. A residential youth hostel is constructed by them.
3. A residential youth hostel is being constructed by them.
4. A residential youth hostel was constructed by them.

Solution :

The correct answer is **option 3 i.e. A residential youth hostel is being constructed by them.**

Active voice - Subject + is/am/are + v4 + object + other words.

Passive voice- Object + is/am/are + being + v3 + by + subject + other words.

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

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. Drug addiction is the continued use of a particular drug (1)_____ harmful consequences. Drug addiction not only affects an individual's health and relationship, but also (2)_____ the society and the environment. Prevention of a particular list of drugs can be possible by (3)_____ their sale without a prescription. Drug addicts should be given proper medical treatment and (4)_____ facilities. Motivational and awareness camps should be organized to scale down the consumption (5)_____ drugs.

Question 20 :

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

Difficulty : Moderate

Average Time : 80 Seconds

Options :

1. in spite
2. despite
3. despite of
4. though

Solution :

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

- "In spite of/Despite" is the correct preposition.

Hence, the chosen option will be correct.

Question 21 :

Select the appropriate meaning of the given idiom. To take the bull by the horns

Difficulty : Moderate

Average Time : 39 Seconds

Options :

1. To surrender to the enemy
2. To speak arrogantly
3. To handle difficulties
4. To murder someone

Solution :

The correct answer is **option 3 i.e. To handle difficulties.**

The meaning of the given idiom is:-

To take the bull by the horns- To handle difficulties.

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

Question 22 :

The given table represents the sale (in thousands) of cars by four companies A, B, C and D in six years. Study the table and answer the question that follows. Company A B C D Year 2013 45 63 65 67 2014 52 49 60 69 2015 61 60 66 67 2016 72 58 70 63 2017 52 53 63 75 2018 3 67 76 74 The Total number of cars sold by company C in 2018 exceeds the average number of cars sold by company A during 2014 to 2018 by:

Difficulty : Moderate

Average Time : 60 Seconds

Options :

1. 15,000
2. 14,000
3. 16,000
4. 12,000

Solution :

The correct answer is **option 3** i.e **16,000**

Explanation:

Total number of cars sold by company C in 2018 = 76000

Total number of cars sold by company A during 2014 to 2018 = 52000 + 61000 + 72000 + 52000 + 63000 = 300000

Average number of cars sold by company A during 2014 to 2018 = $300000/5 = 60000$

Required number = 76000 - 60000 = 16000

Question 23 :

A and B spend 60% and 75% of their incomes, respectively. If the savings of A are 20% more than that of B. then by what percentage is the income of A less than the income of B?

Difficulty : Moderate

Average Time : 48 Seconds

Options :

1. 15



20

3. 10

4. 25

Solution :

The correct answer is **option 4** i.e **25**

Explanation:

Let the income of A and B be X and Y respectively.

$$\text{Saving of A} = X - (60)/(100) \times X = 0.4X$$

$$\text{Saving of B} = Y - (75)/(100) \times Y = 0.25Y$$

If the savings of A are 20% more than that of B then,

$$\text{Saving of A} = 0.25Y \times (120)/(100) = 3Y/10$$

$$0.4X = 3Y/10$$

$$4X = 3Y$$

$$\text{Ratio of income of A and B} = 3 : 4$$

$$\text{Required percentage} = ((4 - 3)/(4)) \times 100 = 25\%$$

Question 24 :

The value of $[3/5 \times 1\ 7/8 \div 1\ 1/3 \text{ of } 3/16 - (3\ 1/5 \div 4\ 1/2 \text{ of } 5\ 1/3) \times 2\ 1/2 + 1/2 + 1/8 \div 1/4]$ is:

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

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

2. $5\ \frac{5}{6}$

3. $4\ \frac{5}{12}$

4. $5\ \frac{5}{12}$

Solution :

The correct answer is **option 3** i.e. $4\frac{5}{12}$

Explanation:

$$[3/5 \times 1\frac{7}{8} \div 1\frac{1}{3} \text{ of } 3/16 - (3\frac{1}{5} \div 4\frac{1}{2} \text{ of } 5\frac{1}{3}) \times 2\frac{1}{2} + 1/2 + 1/8 \div 1/4]$$

By BODMAS rule,

$$((3/5) \times (15/8) \div (4/3)) \text{ of } ((3/16)) - ((16/5) \div (9/2) \text{ of } (16/3) \hat{a}^{\text{oe}}) \times$$

$$(5/2) + (1/2) + (1/8) \div (1/4)$$

$$((3/5) \times (15/8)) \div ((1/4) - ((16/5) \div 24) \div (5/2) + (1/2) + (1/8)) \times (4/1)$$

$$((3/5) \times (15/8)) \times 4 - ((16/5) \times (1/24)) \times ((5/2) + (1/2) + (1/2))$$

$$(3/5) \times (15/2) - (2/15) \times (5/2) + (1/2) + (1/2)$$

$$(9/2) - (1/3) + (1/4) = (53/12) = 4\frac{5}{12}$$

Question 25 :

Select the SYNONYM of the given word. ERUDITE

Difficulty : Moderate

Average Time : 94 Seconds

Options :

1. Learned
2. Illiterate
3. Fashionable
4. Strong

Solution :

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

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

1. **Erudite**- having or showing great knowledge that is based on careful study.
2. **Learned**- having a lot of knowledge from studying; for people who have a lot of knowledge.
3. **Illiterate**- not able to read or write.
4. **Fashionable**- popular or in a popular style at the time.
5. **Strong**- (used about a person) physically powerful; able to lift or carry heavy things.

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

Comprehension :

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank. Drug addiction is the continued use of a particular drug (1)_____ harmful consequences. Drug addiction not only affects an individual's health and relationship, but also (2)_____ the society and the environment. Prevention of a particular list of drugs can be possible by (3)_____ their sale without a prescription. Drug addicts should be given proper medical treatment and (4)_____ facilities. Motivational and awareness camps should be organized to scale down the consumption (5)_____ drugs.

Question 26 :

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

Difficulty : Moderate

Average Time : 90 Seconds

Options :

1. imparts
2. reflects
3. impacts
4. reduces

Solution :

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

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

1. **imparts**- to pass information, knowledge, etc. to other people.
2. **reflects**- to send back light, heat or sound from a surface.
3. **impacts**- an effect or impression.
4. **reduces**- to make something less or smaller in quantity, price, size, etc.

Hence, the chosen option will be correct.

Comprehension :

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank. Drug addiction is the continued use of a particular drug (1)_____ harmful consequences. Drug addiction not only affects an individual's health and relationship, but also (2)_____ the society and the environment. Prevention of a particular list of drugs can be possible by (3)_____ their sale without a prescription. Drug addicts should be given proper medical treatment and (4)_____ facilities. Motivational and awareness camps should be organized to scale down the consumption (5)_____ drugs.

**Question 27 :**

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

Difficulty : Moderate

Average Time : 81 Seconds

Options :

1. performing
2. conducting
3. restricting
4. promoting

Solution :

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

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

1. **performing**- to do a piece of work or something that you have been ordered to do.
2. **conducting**- to organize and do something, especially research.
3. **restricting**- to put a limit on somebody/something.
4. **promoting**- to encourage something; to help something to happen or develop.

"**Restricting**" which means "**to put a limit**" fits in the context appropriately.

Hence, the chosen option will be correct.

Comprehension :

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank. Drug addiction is the continued use of a particular drug (1)_____ harmful consequences. Drug addiction not only affects an individual's health and relationship, but also (2)_____ the society and the environment. Prevention of a particular list of drugs can be possible by (3)_____ their sale without a prescription. Drug addicts should be given proper medical treatment and (4)_____ facilities. Motivational and awareness camps should be organized to scale down the consumption (5)_____ drugs.

Question 28 :

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

Difficulty : Moderate

Average Time : 88 Seconds

Options :

1. regeneration



rehabilitation

3. resignation

4. regression

Solution :

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

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

1. **regeneration**- the action or process of regenerating or being regenerated.
2. **rehabilitation**- to return someone to a healthy or usual condition or way of living.
3. **resignation**- a letter or statement that says you want to leave your job or position.
4. **regression**- a return to a former or less developed state.

"Rehabilitation" which means "to return someone to a healthy condition" fits in the context appropriately.

Hence, the chosen option will be correct.

Comprehension :

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank. Drug addiction is the continued use of a particular drug (1)_____ harmful consequences. Drug addiction not only affects an individual's health and relationship, but also (2)_____ the society and the environment. Prevention of a particular list of drugs can be possible by (3)_____ their sale without a prescription. Drug addicts should be given proper medical treatment and (4)_____ facilities. Motivational and awareness camps should be organized to scale down the consumption (5)_____ drugs.

Question 29 :

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

Difficulty : Moderate

Average Time : 91 Seconds

Options :

1. by
2. for
3. from
4. of

Solution :

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

"Consumption of something" will be the correct use of the preposition here.

Hence, the chosen option will be correct.

Question 30 :

Select the appropriate meaning of the given idiom. To flog a dead horse

Difficulty : Moderate

Average Time : 39 Seconds

Options :

1. To make the best use of resources
2. To waste the efforts
3. To accept the challenge
4. To complete the work

Solution :

The correct answer is **option 2 i.e. To waste the efforts.**

The meaning of the given idiom is:-

To flog a dead horse- waste energy on a lost cause or a situation that cannot be changed.

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

Question 31 :

Select the most appropriate word to fill in the blank. All students should express their _____ views in the group discussion without any fear.

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. candid
2. guarded
3. outspoken
4. secluded

Solution :

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

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



candid- saying exactly what you think.

2. **guarded**- (used about an answer, statement, etc.) careful; not giving much information or showing what you feel.
3. **outspoken**- saying exactly what you think or feel although you may shock or upset other people.
4. **secluded**- far away from other people, roads, etc.; very quiet.

"Candid" which means "**saying exactly what you think**" fits in the context appropriately.

Correct Sentence:-

All students should express their candid views in the group discussion without any fear.

Question 32 :

Select the ANTONYM of the given word. BIZARRE

Difficulty : Moderate

Average Time : 68 Seconds

Options :

1. Strange
2. Happy
3. Weird
4. Usual

Solution :

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

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

1. **Bizarre**- very strange or unusual.
2. **Strange**- that you have not seen, visited, met, etc. before.
3. **Happy**- feeling or showing pleasure; pleased.
4. **Weird**- strange and unusual.
5. **Usual**- happening or used most often.

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

Question 33 :

Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select No improvement. Many of a students were not shortlisted for the personal interview.

Difficulty : Moderate

Average Time : 62 Seconds

Options :



No improvement

2. The many student

3. Many of the students

4. Many of students

Solution :

The correct answer is **option 3 i.e. Many of the students.**

- "Many of the plural nouns" is the correct noun phrase.
- The chosen option follows the given rule hence, it will **IMPROVE** the statement correctly.

Correct Sentence:-

Many of the students were not shortlisted for the personal interview.

Question 34 :

Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select 'No improvement'. When I was working in a software company, it was mandatory to register my legally as an authorized software developer.

Difficulty : Moderate

Average Time : 58 Seconds

Options :

1. register mine legally
2. register me legal
3. register myself legally
4. No improvement

Solution :

The correct answer is **option 3 i.e. register myself legally.**

- In the given statement, the action is being done on the doer hence, we need to use Reflexive Pronoun here.
- The subject is "I" hence, "**Myself**" will be the correct Reflexive Pronoun here.
- The chosen option follows the given rule hence, it will **IMPROVE** the statement correctly.

Correct Sentence:-

When I was working in a software company, it was mandatory to **register myself legally** as an authorized software developer.

**Question 35 :**

Select the word which means the same as the group of words given. A long and aggressive speech.

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. Eloquence
2. Discussion
3. Prologue
4. Harangue

Solution :

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

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

1. **Eloquence**- ease in using language to best effect.
2. **Discussion**- the process of talking about something seriously or deeply.
3. **Prologue**- a piece of writing or a speech that introduces a play, poem, etc.
4. **Harangue**- a long, loud, angry speech that is critical of somebody/something or tries to persuade people to do something.

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

Question 36 :

Select the word which means the same as the group of words given. The school or college in which one has been educated.

Difficulty : Moderate

Average Time : 64 Seconds

Options :

1. Alma mater
2. Mentor
3. Alumni
4. Graduate

Solution :

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

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

1. **Alma mater**- the school, college or university that somebody attended.
2. **Mentor**- an experienced person who advises and helps somebody with less experience over a period of time.
3. **Alumni**- a former male student of a school, college or university.
4. **Graduate**- a person who has a first degree from a university, etc.

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

Question 37 :

Given below are four jumbled sentences. Select the option that gives their correct order. A. During the celebration, many people display a set of ornamental dolls known as 'Hina' dolls. B. Hinamatsuri is a celebration of the girls in Japan wishing them a bright future. C. These royal-looking dolls are dressed in the clothing of the Heian period. D. These dolls represent the Emperor, Empress and other royal representatives.

Difficulty : Moderate

Average Time : 76 Seconds

Options :

1. CDBA
2. BADC
3. ACBD
4. DBAC

Solution :

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

- **Statement B** is independent and defines the theme of the paragraph "**Hinamatsuri**" hence, it will be the opening statement.
- **Statement A** talks about the activity done during the celebration hence, it will come after B.
- **Statement D** talks about the "**Hina doll**" that is mentioned in statement A hence, it will come after A.
- **Finally, C** will come at the end of the statement.
- Now we have the final arrangement i.e. **BADC**.

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

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

1. Read the paragraph **carefully** and try to **comprehend the paragraph's idea or theme** and **eliminate the irrelevant options**.
2. Try to identify the opening (**Independent statement**) and closing statement (**Concluding statement**).



Try to **identify** the **mandatory pairs**. Two sentences can be connected through various connectors.

4. If a statement starts with **Pronoun**, find **the noun** for which the pronoun is used, both the statements containing **noun** and **pronoun** will form a pair respectively.

Question 38 :

Select the most appropriate word to fill in the blank. All his endeavors to win his teacher's favour proved _____ and did not bring the desired results.

Difficulty : Moderate

Average Time : 100 Seconds

Options :

1. perpetual
2. prosperous
3. futile
4. apparent

Solution :

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

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

1. **perpetual**- continuing for a long period of time without stopping.
2. **prosperous**- rich and successful.
3. **futile**- having no success.
4. **apparent**- that seems to be real or true but may not be.

"**Futile**" which means "**having no success**" fits in the context appropriately.

Correct Sentence:-

All his endeavors to win his teacher's favour proved futile and did not bring the desired results.

Question 39 :

In the sentence identify the segment which contains the grammatical error. The old man did not wanted to eat any food.

Difficulty : Moderate

Average Time : 67 Seconds

Options :

1. any food
2. The old man



did not wanted

4. to eat

Solution :

The correct answer is **option 3 i.e. did not wanted.**

1. The error lies in **option 3** because of the wrong use of "**Verb Form**".
2. We need to replace "**Wanted**" with "**Want**" for making the statement grammatically correct.

Grammatical concept:-

- "**Did+ v1**" is the correct verb phrase.
- The chosen option contains the **ERROR** hence, it will be the correct choice.

Correct Sentence:-

The old man **did not want to eat any food.**

Question 40 :

In the sentence identify the segment which contains the grammatical error. No least than fifty participants were present for the singing competition.

Difficulty : Moderate

Average Time : 65 Seconds

Options :

1. No least than
2. fifty participants were
3. present for
4. the singing competition

Solution :

The correct answer is **option 1 i.e. No least than.**

1. The error lies in **option 1** because of the wrong use of "**Adjective**".
2. We need to replace "**Least**" with "**Less**" for making the statement grammatically correct.

Grammatical concept:-

- "**No less than**" is the correct phrase to use here.
- The chosen option contains the **ERROR** hence, it will be the correct choice.

Correct Sentence:-

No less than fifty participants were present for the singing competition.

Question 41 :

Select the correct mirror image of the given figure when a mirror is placed on its right side.

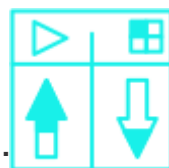
Difficulty : Moderate

Average Time : 65 Seconds

Options :

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

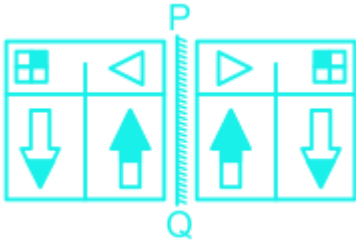
Solution :



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

Understanding

The mirror image of the question figure is shown below:



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

Question 42 :

'Vertebrate' is related to 'Monkey' in the same way as 'Invertebrate' is related to '_____'.

Difficulty : Moderate

Average Time : 83 Seconds

Options :

1. Snake
2. Deer
3. Starfish
4. Frog

Solution :

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

Understanding	Application
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<p>Vertebrates are animals that have a backbone inside their body.</p> <p>Example: Monkey, Human beings etc.</p>	<p>Similarly,</p> <p>Invertebrates don't have a backbone.</p> <p>Example: Starfish, Jellyfish.</p> <p>Hence, option 3 is the correct answer.</p>
---	--

Question 43 :

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 : 59 Seconds

Options :

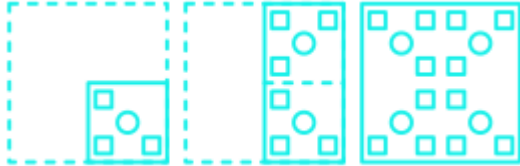
- 1.
- 2.
- 3.
- 4.

Solution :

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

Understanding

After unfolding, the paper will appear as follows:



When the paper is unfolded same pattern of cutting will appear on the top and left side of the paper.

Question 44 :

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

Difficulty : Moderate

Average Time : 75 Seconds

Options :

1. Polio
2. Measles
3. Schizophrenia
4. Rabies

Solution :

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

Understanding

Polio, Measles and Rabies are caused by virus whereas Schizophrenia is a mental disorder in which people interpret reality abnormally.

Hence, Schizophrenia is the odd one out.

Hence, option 3 is the correct answer.

Question 45 :

Select the option in which the numbers are related in the same way as are the numbers in the given set. (7, 98, 196)

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

1. (11, 154, 308)
2. (18, 185, 360)
3. (15, 190, 380)
4. (20, 267, 520)

Solution :

The correct answer is **option 1** i.e (11, 154, 308).

Understanding	Application
The logic used here is: (7, 98, 196) $7 \times 14 = 98$ $98 \times 2 = 196$	Similarly, (11, 154, 308) $11 \times 14 = 154$ $154 \times 2 = 308$ Only option 1 follows the same logic. Hence, option 1 is the correct answer.

Question 46 :

Select the letter-cluster that can replace the question mark (?) in the following series. SAT, VEW, YIZ,?, EUF

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

1. COD
2. BOC
3. BUK

FIC**Solution :**The correct answer is **option 2** i.e **BOC**.**Understanding**

Given series: SAT, VEW, YIZ,?, EUF

The logic used here is:

The middle letter is a vowel starting from A.

SAT, VEW, YIZ,?, EUF

$$(S + 3) = V$$

$$(T + 3) = W$$

Similarly,

YIZ, ?

$$(Y + 3) = B$$

$$(Z + 3) = C$$

The missing term in the series is **BOC**.**Hence, option 2 is the correct answer.****Question 47 :**

Select the option that is embedded in the given figure X (rotation is not allowed).

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

3.

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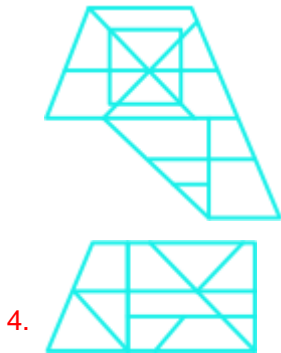
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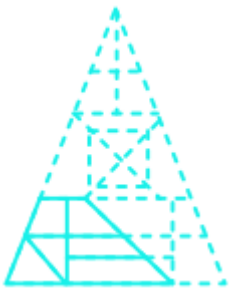
Solution :

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



Understanding

Option 2 is embedded in figure X, as shown below:



Question 48 :

Which two signs and two numbers should be interchanged to make the given equation correct? $11 \times 7 \div 35 - 64 + 56 = 47$

Difficulty : Moderate

Average Time : 75 Seconds

Options :

1. \times and \div ; 35 and 56
2. $+$ and $-$; 35 and 11
3. \times and \div ; 35 and 11
4. $+$ and $-$; 7 and 11

Solution :

The correct answer is **option 3** i.e **x and ÷; 35 and 11**.

Understanding

Given equation: $11 \times 7 \div 35 - 64 + 56 = 47$

Check all the options:

Option 1: x and ÷; 35 and 56

After replacement the equation becomes;

$$= 11 \div 7 \times 56 - 64 + 35$$

$$= 59 \text{ is not equal to } 47.$$

Hence, **option 1** is not the correct answer.

Option 2: + and -; 35 and 11

After replacement the equation becomes;

$$= 35 \times 7 \div 11 + 64 - 56$$

$$= 30.27 \text{ is not equal to } 47.$$

Hence, option 2 is not the correct answer.

Option 3: x and ÷; 35 and 11

After replacement the equation becomes;

$$= 35 \div 7 \times 11 - 64 + 56$$

$$= 47 \text{ is equal to } 47.$$

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

Understanding**Option 4: + and -; 7 and 11**

After replacement the equation becomes;

$$= 7 \times 11 \div 35 + 64 - 56$$

$$= 10.2 \text{ is not equal to } 47.$$

Hence, **option 4** is not the correct answer.**Question 49 :**

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

Difficulty : Moderate

Average Time : 98 Seconds

Options :

1. Bank: Loan
2. Inspection: Approval
3. Film: Comedian
4. Election: Observer

Solution :The correct answer is **option 4** i.e **Election: Observer**.**Understanding****Application**

An exam invigilator is someone who is appointed by the examination board and services for maintaining the proper conduct of a particular examination in accordance with the exam regulations.

Similarly,

Election Observers visit the polling stations where people cast their votes – from the opening of the polling stations in the early morning till the delivery of voting results late at night.

Hence, option 4 is the correct answer.

Question 50 :

Select the dice that can be formed by folding the given sheet along the lines.

Difficulty : Moderate

Average Time : 63 Seconds

Options :

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

Solution :

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

Understanding



After folding the sheet along the lines;

3 is opposite to 2

1 is opposite to 4

6 is opposite to 5

From the dice B, 6 is not opposite to 5. Hence, dice B cannot be formed.

From the dice C, 3 is not opposite to 2. Hence, dice C cannot be formed.

From the dice D, 1 is not opposite to 4. Hence, dice D cannot be formed.

When the sheet is folded with 6 at the top position 6 is opposite to 5, 1 is opposite to 4, 3 is opposite to 2. Hence, only dice A can be formed by folding the sheet.

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

Question 51 :

Select the number that can replace the question mark (?) in the following series. 61, 63, 65, 77, 89, ? , 149, 205

Difficulty : Moderate

Average Time : 72 Seconds

Options :

1. 132
2. 115
3. 123
4. 119

Solution :

The correct answer is **option 4** i.e **119**.

Understanding



Given series: 61, 63, 65, 77, 89, ? , 149, 205

The logic used here is:

$$61 + (1^2 + 1) = 63$$

$$63 + (2^2 - 2) = 65$$

$$65 + (3^2 + 3) = 77$$

$$77 + (4^2 - 4) = 89$$

$$89 + (5^2 + 5) = 119$$

$$119 + (6^2 - 6) = 149$$

$$149 + (7^2 + 7) = 205$$

The missing term in the series is **119**.

Hence, option 4 is the correct answer.

Question 52 :

Vineet, Rajesh and Kriti have different amounts of money with them. Rajesh has just double the amount of money than Vineet. The total amount of money that Rajesh and Kriti have is Rs.147. Kriti has Rs.6 more than the amount Vineet has. How much money does Kriti have?

Difficulty : Moderate

Average Time : 67 Seconds

Options :

1. Rs.53
2. Rs.64
3. Rs.72
4. Rs.75

Solution :

The correct answer is **option 1** i.e **Rs.53**.

Understanding

Let Vineet has Rs. x .

Rajesh has Rs. $2x$

And Kriti has Rs. $x + 6$

According to the question;

$$2x + x + 6 = 147$$

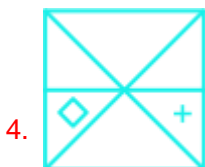
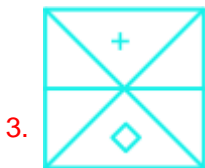
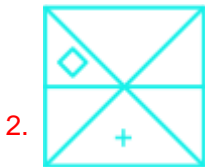
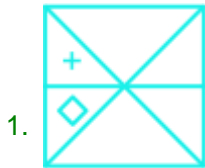
$$x = 47$$

$$\text{Amount with Kriti} = x + 6 = 47 + 6 = 53$$

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

Question 53 :

Select the figure that can replace the question mark (?) in the following series.

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

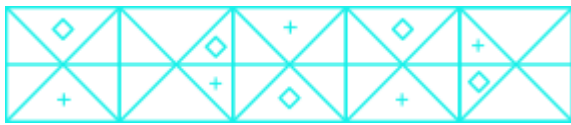
The correct answer is **option 1** i.e .

Understanding

The + symbol moves 1 place in the anticlockwise direction and in the next figure 2 places and so on.

The rhombus moves 1 place in the clockwise direction and in the next figure 2 places and so on.

The sequence of figures:



Question 54 :

Four number-pairs have been given, out of which three are alike in some manner and one is different. Select the number-pair that is different from the rest.

Difficulty : Moderate

Average Time : 80 Seconds

Options :

1. 11 : 143
2. 23 : 667
3. 19 : 475
4. 17 : 323

Solution :

The correct answer is **option 3** i.e **19 : 475**

Question 55 :

Which of the following venn diagram best represent the relationship between the following classes? Income tax payers, Employees, Males

Difficulty : Moderate

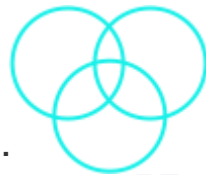
Average Time : 32 Seconds

Options :

- 1.

-
-
- 3.
-
- 4.

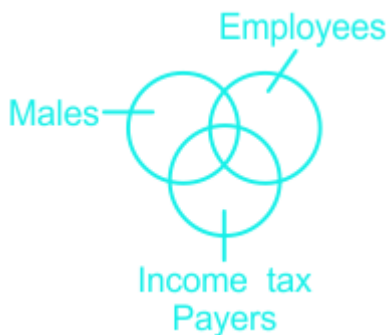
Solution :



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

Understanding

The possible Venn diagram is:



Some males are employees and also some males are income taxpayers. Some income taxpayers are also employees.

Hence, the diagram given above shows the best relationship between them.

Question 56 :

Arrange the following words in the order in which they would appear in an English dictionary. 1. Category 2. Caption 3. Captain 4. Capsule 5. Capacity



Difficulty : Moderate

Average Time : 83 Seconds

Options :

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

Solution :

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

Understanding

In this question, you need to arrange the words in the order in which they would appear in an English dictionary.

So the arrangement is;

1. Capacity
2. Capsule
3. Captain
4. Caption
5. Category

Question 57 :

Study the given pattern carefully and select the number that can replace the question mark (?) in it. 21 18 32 19 22 ? 299 296 348

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. 14
2. 28
3. 30

24

Solution :

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

Understanding	Application
<p>The logic used here is:</p> <p>In column:</p> <p>1st number × 2nd number = Result - 100 = 3rd number.</p> <p>Column 1:</p> <p>$21 \times 19 = 399 - 100 = 299$</p> <p>Column 2:</p> <p>$18 \times 22 = 396 - 100 = 296$</p>	<p>Similarly,</p> <p>Column 3:</p> <p>$32 \times y = 348$ $+ 100 = 448$</p> <p>$y = 14$</p> <p>Hence, option 1 is the correct answer.</p>

Question 58 :

In a certain code language, 'SANCTION' is written as 'XFSHODJI'. How will 'PROFOUND' be written as in that language?

Difficulty : Moderate

Average Time : 62 Seconds

Options :

1. UWTKKPIZ
2. UXTKJPIY
3. UWTKJPIY
4. VWUKMPIY

Solution :

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

Understanding	Application
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<p>The logic used here is:</p> <p>S A N C T I O N ↓+5 ↓+5 ↓+5 ↓+5 ↓+5 ↓+5 ↓+5 ↓+5 X F S H O D J I</p>	<p>Similarly,</p> <p>Code for the word PROFOUND:</p> <p>P R O F O U N D ↓+5 ↓+5 ↓+5 ↓+5 ↓+5 ↓+5 ↓+5 ↓+5 U W T K J P I Y</p> <p>Hence, option 3 is the correct answer.</p>
---	--

Question 59 :

The given table represents the sale (in thousands) of cars by four companies A, B, C and D in six years. Study the table and answer the question that follows.

Company	A	B	C	D	Year
2013	45	63	65	67	
2014	52	49	60	69	
2015	61	60	66	67	
2016	72	58	70	63	
2017	52	53	63	75	
2018	3	67	76	74	

What is the ratio of the total number of cars sold by companies A, B and D in 2017 to the total number of cars sold by all four companies in 2018?

Difficulty : Moderate

Average Time : 75 Seconds

Options :

1. 3 : 4
2. 6 : 13
3. 9 : 14
4. 18 : 23

Solution :

The correct answer is **option 3** i.e **9 : 14**

Explanation:

The total number of cars sold by companies A, B and D in 2017 = 52 + 53 + 75 = 180

The total number of cars sold by all four companies in 2018 = 63 + 67 + 76 + 74 = 280

The ratio of the total number of cars sold by companies A, B and D in 2017 to the total number of cars sold by all four companies in 2018 = 180 : 280 = 9 : 14

Question 60 :

Which of the following is NOT located in Odisha?



Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. Mayurbhanj Elephant Reserve
2. Sambalpur Elephant Reserve
3. Sonitpur Elephant Reserve
4. Mahanadi Elephant Reserve

Solution :

The correct answer is **option 3** i.e **Sonitpur Elephant Reserve**.

- The Kameng-Sonitpur Elephant Reserve (KSER) is located in the eastern hill forests of Arunachal Pradesh and Assam in India, and its area is about 7500 sq. km.
- This reserve is currently home to approximately 1200 elephants.

Question 61 :

Which of the following is NOT an ore of iron?

Difficulty : Moderate

Average Time : 48 Seconds

Options :

1. Cuprite
2. Haematite
3. Magnetite
4. Siderite

Solution :

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



- Cuprite, soft, heavy, red oxide mineral (Cu_2O) that is an important ore of copper.

Question 62 :

The National Commission for Backward Classes (NCBC) was formed by the insertion of Article _____ in the Constitution of India.

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

1. 328B
2. 328A
3. 338A
4. 338B

Solution :

The correct answer is **option 4** i.e. **338B**.

- India's National Commission for Backward Classes is a constitutional body (123rd constitutional amendment bill 2017 and 102nd Amendment 2018 in the constitution to make it constitutional body) (Article 338B of the Indian Constitution) under India's Ministry of Social Justice and Empowerment established on 14 August 1993.
- It was constituted pursuant to the provisions of the National Commission for Backward Classes Act, 1993.

Question 63 :

Name the first female amputee to climb Mount Everest.

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

1. Premlata Agarwal
2. Arunima Sinha
3. Poorna Malavath
4. Anshu Jamsenpa

Solution :

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



- Arunima Sinha is an Indian mountain climber and sportswoman.
- She is a seven-time Indian volleyball player, mountaineer and the World's first female amputee to scale Mount Everest, Mount Kilimanjaro (Tanzania), Mount Elbrus (Russia), Mount Kosciusko (Australia), Mount Aconcagua (South America), Carstensz Pyramid (Indonesia) and Mount Vinson.

Question 64 :

Pernicious anaemia is caused by the deficiency of vitamin _____.

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. B2
2. B6
3. B1
4. B12

Solution :

The correct answer is **option 4** i.e. **B12**.

- The most common cause of vitamin B-12 deficiency anaemia is a lack of a substance called intrinsic factor, which can be caused when your immune system mistakenly attacks the stomach cells that produce this substance.
- This type of anaemia is called pernicious anaemia.

Question 65 :

India won its _____ successive title at the South Asian Football Federation Women's Championship in March 2019

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. fourth



sixth

3. second

4. fifth

Solution :

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

- The 2019 SAFF Women's Championship was the 5th edition of the SAFF Women's Championship, the biennial international women's football championship contested by the national teams of the South Asian Football Federation (SAFF).
- India has lifted South Asian Football Federation SAFF Women's Championship for the fifth time in a row.

Question 66 :

The excavated remains of _____ found near Patna in Bihar was inscribed as a World Heritage Site by UNESCO in July 2016.

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. Ashoka Pillar
2. Ellora Caves
3. Sanchi Stupa
4. Nalanda Mahavihara

Solution :

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



- The excavated remains of Nalanda Mahavihara found near Patna in Bihar was inscribed as a World Heritage Site by UNESCO in July 2016.
- This ruin dates back to the period from the 3rd century BC to the 13th century AD. Kumargupta I of the Gupta dynasty founded Nalanda Mahavihara in the 5th century CE.

Question 67 :

The headquarters of the Board of Control for Cricket in India (BCCI) is located in _____.

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. Bengaluru
2. Mumbai
3. Kolkata
4. Delhi

Solution :

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

- The Board of Control for Cricket in India (BCCI) is the governing body for cricket in India and is under the jurisdiction of the Ministry of Youth Affairs and Sports, Government of India.
- The board was formed in December 1928 as a society, registered under the Tamil Nadu Societies Registration Act.
- Its headquarters are in Wankhede Stadium, Mumbai.

Question 68 :

Name the first Lieutenant Governor of the Union Territory of Jammu and Kashmir.



Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. Arif Mohammad Khan
2. Bhagat Singh Koshyari
3. Satya Pal Malik
4. Girish Chandra Murmu

Solution :

The correct answer is **option 4** i.e **Girish Chandra Murmu**.

- The Lieutenant Governor of Jammu and Kashmir is the head of state of the Union territory of Jammu and Kashmir.
- Girish Chandra Murmu was the first Lieutenant Governor of the Union Territory of Jammu and Kashmir till August 2020.

Question 69 :

_____ is also known as the 'Golden City'

Difficulty : Moderate

Average Time : 48 Seconds

Options :

1. Dungarpur
2. Jodhpur
3. Bundi
4. Jaisalmer

Solution :

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

- Jaisalmer nicknamed "The Golden city", is a city in the Indian state of Rajasthan, located 575 kilometres (357 mi) west of the state capital Jaipur.
- The town stands on a ridge of yellowish sandstone and is crowned by the ancient Jaisalmer Fort.

Question 70 :

The aggregate value of goods and services produced in an economy can be calculated by three methods: income method, expenditure method and _____ method.

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. product/ value added
2. spending
3. deposit
4. lending

Solution :

The correct answer is **option 1** i.e. **product/ value-added**.

- The national income of a country can be measured by three alternative methods: (i) Product Method (ii) Income Method, and (iii) Expenditure Method.
- Product Method: In this method, national income is measured as a flow of goods and services.
- Income Method: In this method, national income is measured as a flow of factor incomes.
- Expenditure Method: In this method, national income is measured as a flow of expenditure.

Question 71 :



_____ renounced his knighthood in protest for Jalianwalla Bagh mass killing.

Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. Jamsetjee Jejeebhoy
2. Rabindranath Tagore
3. Shivajirao Holkar
4. Surendranath Banerjee

Solution :

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

- Ravindra Nath Tagore renounced his Knighthood in protest for Jalianwalla Bagh mass killing.
- He wrote a letter to Lord Chelmsford, the British viceroy, repudiating his Knighthood in protest for Jalianwalla Bagh mass killing.

Question 72 :

'Dharmaraja (Yudhishtir) Ratha', 'Bhima Ratha', 'Arjuna Ratha' and 'Nakula Sahadeva Ratha' are four of the Panch Rathas at Mahabalipuram. What is the name of the fifth Ratha?

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. Bhishma Ratha
2. Krishna Ratha
3. Karna Ratha
4. Draupadi Ratha

Solution :

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



- Pancha Rathas (also known as Five Rathas or Pandava Rathas) is a monument complex at Mahabalipuram, on the Coromandel Coast of the Bay of Bengal, in the Kancheepuram district of the state of Tamil Nadu, India.
- Each of the five monuments in the Pancha Rathas complex resembles a chariot (Ratha), and each is carved over a single, long stone or monolith, of granite that slopes in a north-south direction with a slight incline.
- The structures are named after the Pancha Pandavas and their common wife Draupadi, of epic Mahabharata fame.
- In order of their size, they include the Dharmaraja Ratha, Bhima Ratha, Arjuna Ratha, Nakula Sahadeva Ratha, and Draupadi Ratha.

Question 73 :

The _____ in China is the world's longest man-made waterway.

Difficulty : Moderate

Average Time : 70 Seconds

Options :

1. Suzhou Canal
2. Kiel Canal
3. Corinth Canal
4. Grand Canal

Solution :

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

- The Grand Canal, a UNESCO World Heritage Site, is the longest canal or artificial river in the world.
- Starting in Beijing, it passes through Tianjin and the provinces of Hebei, Shandong, Jiangsu, and Zhejiang to the city of Hangzhou, linking the Yellow River and Yangtze River.
- The total length of the Grand Canal is 1,776 km (1,104 mi).

Question 74 :

The Ghadar Party was formed in the year _____.

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. 1921
2. 1918
3. 1915
4. 1913

Solution :

The correct answer is **option 4** i.e **1913**.

- The Ghadar Movement was an early 20th century, an international political movement founded by expatriate Indians to overthrow British rule in India.
- The official founding has been dated to a meeting on 15 July 1913 in Astoria, Oregon, with the Ghadar headquarters and Hindustan Ghadar newspaper based in San Francisco, California.

Question 75 :



Alai-Darwaza, the southern gateway of the Quwwat-ul-Islam mosque in Delhi, was constructed by _____.

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. Mu'izz ad-Din Muhammad Ghori
2. Ahmad Shāh Durrani
3. Ala-Ud-din Khalji
4. Muhammad bin Tughlu

Solution :

The correct answer is **option 3** i.e. **Ala-Ud-din Khalji**.

- Alai-Darwaza is the southern gateway of the Quwwat-ul-Islam Mosque in the Qutb complex, Mehrauli, Delhi, India.
- Built by Sultan Alauddin Khalji in 1311 and made of red sandstone, it is a square domed gatehouse with arched entrances and houses a single chamber.

Question 76 :

The Indus Waters Treaty was signed between India and Pakistan on _____.

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. 19 September 1960
2. 12 November 1959
3. 16 December 1963
4. 18 October 1969

Solution :

The correct answer is **option 1** i.e **19 September 1960**.



- The Indus Waters Treaty is a water-distribution treaty between India and Pakistan, brokered by the World Bank, to use the water available in the Indus River and its tributaries.
- The Indus Waters Treaty (IWT) was signed in Karachi on 19 September 1960 by Indian Prime Minister Jawaharlal Nehru and Pakistani President Ayub Khan.

Question 77 :

_____ are homogeneous mixtures of two or more components.

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

1. Amalgams
2. Solutions
3. Enzymes
4. Emulsions

Solution :

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

- A solution is a homogeneous mixture of two or more substances in a single phase.

Question 78 :

The total number of images formed by two mirrors inclined at 120° to each other is _____.

Difficulty : Moderate**Average Time : 41 Seconds****Options :**

1. 4
2. 3



2

4. 1

Solution :

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

- The formula to find the number of images formed between two plane mirrors inclined at an angle, θ between them is as follows:

$$\text{Number of images formed} = (360^\circ \div \theta) - 1$$

- $\theta = 120^\circ$

Number of images formed =

$$(360^\circ \div 120) - 1 = 3 - 1 = 2$$

Question 79 :

Depreciation is an annual allowance for the wear and tear of _____.

Difficulty : Moderate

Average Time : 80 Seconds

Options :

1. Work in progress
2. Land
3. Finished goods
4. Capital goods

Solution :

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

- Depreciation is a tax deduction for taxpayers to regain the cost or other basis of certain property.
- It is an annual allowance for the use of a property that has damage, wear and tear or deterioration.

Question 80 :

The Padma Awards are announced around _____ every year.

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. Republic Day
2. Sadbhavana Diwas
3. Independence Day
4. Hindi Diwas

Solution :

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

- Padma Awards - one of the highest civilian Awards of the country, are conferred in three categories, namely, Padma Vibhushan, Padma Bhushan and Padma Shri.
- The Awards are given in various disciplines/ fields of activities, viz.- art, social work, public affairs, science and engineering, trade and industry, medicine, literature and education, sports, civil service, etc.
- 'Padma Vibhushan' is awarded for exceptional and distinguished service; 'Padma Bhushan' for distinguished service of high order and 'Padma Shri' for distinguished service in any field.
- The awards are announced on the occasion of Republic Day every year.

Question 81 :

Which of the following can be used as a catalyst in Hydrogenation reaction?

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

1. Barium
2. Iron
3. Tungsten
4. Palladium

Solution :

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



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- Hydrogenation is a chemical reaction between molecular hydrogen (H_2) and another compound or element, usually in the presence of a catalyst such as nickel, palladium or platinum.
- The process is commonly employed to reduce or saturate organic compounds.

Question 82 :

In ABC, $B = 90^\circ$, If the points D and E are on the side BC such that $BD = DE = EC$, then which of the following is true?

Difficulty : Moderate

Average Time : 52 Seconds

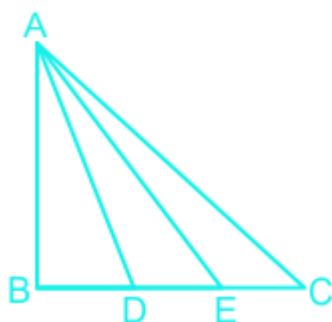
Options :

1. $5AE^2 = 2AC^2 + 3AD^2$
2. $8AE^2 = 5AC^2 + 3AD^2$
3. $8AE^2 = 3AC^2 + 5AD^2$
4. $5AE^2 = 3AC^2 + 2AD^2$

Solution :

The correct answer is **option 3** i.e $8AE^2 = 3AC^2 + 5AD^2$

Explanation:



Let the BD, BE and BC be x , $2x$ and $3x$ respectively.

In ABD,

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



$$(AD)^2 = (AB)^2 + (x)^2 \text{ -----(1)}$$

In ABE,

$$(AE)^2 = (AB)^2 + (BE)^2$$

$$(AE)^2 = (AB)^2 + (2x)^2$$

$$(AE)^2 = (AB)^2 + 4x^2 \text{ -----(2)}$$

In ABC,

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

$$(AC)^2 = (AB)^2 + (3x)^2$$

$$(AC)^2 = (AB)^2 + 9x^2 \text{ -----(3)}$$

Eq(1) multiply by 4,

$$4AD^2 = 4AB^2 + 4x^2 \text{ -----(4)}$$

Eq(4) - (2),

$$4AD^2 - AE^2 = 3AB^2 \text{ -----(5)}$$

Eq(1) multiply by 9,

$$9AD^2 = 9AB^2 + 9x^2 \text{ -----(6)}$$

Eq(6) - (3),

$$9AD^2 - AC^2 = 8AB^2 \text{ -----(7)}$$

Eq(5) multiply by 8 and Eq(7) multiply by 3,

$$32AD^2 - 8AE^2 = 24AB^2 \text{ -----(8)}$$

$$27AD^2 - 3AC^2 = 24AB^2 \text{ -----(9)}$$

From eq(8) and (9),

$$32AD^2 - 8AE^2 = 27AD^2 - 3AC^2$$

$$8AE^2 = 5AD^2 + 3AC^2$$

Question 83 :

When a positive integer is divided by d, the remainder is 15. When ten times of the same number is divided by d. the remainder is 6. The least possible value of d is:



Difficulty : Moderate

Average Time : 135 Seconds

Options :

1. 9
2. 16
3. 18
4. 12

Solution :

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

Explanation:

When a positive integer is divided by d , the remainder is 15 and When ten times of the same number is divided by d . the remainder is 6.

So,

15 will be also ten times so,

Remainder = 150

By the option B)

When 150 is divided by 16 then remainder will be 6.

Question 84 :

Reema sold 48 articles for Rs.2,160 and suffered a loss of 10%. How many articles should she sell for Rs.2,016 to earn a profit of 12%?

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. 36
2. 40
3. 28
4. 32

Solution :



The correct answer is **option 1** i.e **36**

Explanation:

Selling price of 48 articles when loss of 10% = 2160

Cost price of 48 articles = $2160/90 \times 100 = 2400$

Cost price of 1 article = $2400/48 = 50$

Selling price of when profit of 12% = 2016

Cost price = $2016/112 \times 100 = 1800$

Number of articles = $1800/50 = 36$

Question 85 :

A and B together borrowed a sum of Rs.51,750 at an interest rate of 7%p.a. compound interest in such a way that to settle the loan, A paid as much amount after three years as paid by B after 4 years from the day of borrowing. The sum (in Rs) borrowed by B was:

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. 25,650
2. 26,750
3. 25,000
4. 24,860

Solution :

The correct answer is **option 3** i.e **25,000**

Explanation:

let A borrow be Rs.x.

Borrowed by B = $51,750 - x$

compound interest rate(r) = 7%

Amount paid by A after 3 year = amount paid by B after 4 year

Amount = principal $(1 + r/100)^t$

$$x(1 + 7/100)^3 = (51,750 - x)(1 + 7/100)^4$$



$$x = (51,750 - x) \times 107/100$$

$$100x = 5537250 - 107x$$

$$x = 5537250/207 = 26750$$

$$\text{Borrowed by B} = 51,750 - x = 51,750 - 26750 = 25000$$

Question 86 :

$((x^2(x - 4)^2)/((x + 4)^2 - 4x)) \div ((x^2 - 4x)^3)/((x + 4)^2) \times (64 - x^3)/(16 - x^2)$ is equal to :

Difficulty : Moderate

Average Time : 54 Seconds

Options :

1. $(x - 4)/(x + 4)$
2. $(x + 4)/((x(4 - x)))$
3. $(x + 4)/((x(x - 4)))$
4. $(x + 4)/(x - 4)$

Solution :

The correct answer is **option 3** i.e $(x + 4)/((x(x - 4)))$

Explanation:

$$\begin{aligned} & (x^2(x - 4)^2)/((x + 4)^2 - 4x) \div ((x^2 - 4x)^3)/((x + 4)^2) \times (64 - x^3)/(16 - x^2) \\ &= (x^2(x - 4)^2)/((x + 4)^2 - 4x) \times ((x + 4)^2)/((x^2 - 4x)^3) \times (64 - x^3)/(16 - x^2) \\ &= ((x^2(x - 4)^2)/((x + 4)^2 - 4x) \times ((x + 4)^2)/((x^3(x - 4)^3) \times (4^3 - x^3)/(4^2 - x^2) \\ &= (x + 4)^{1/2} - 4x \times ((x + 4)^2)/((x(x - 4))) \times ((4 - x)(4^2 + 4x + x^2))/((4 - x)(4 + x)) \\ &= (1)/(4^2 + 8x + x^2 - 4x) \times ((x + 4))x(x - 4)) \times (4^2 + 4x + x^2) \\ &= (1)/(4^2 + 4x + x^2) \times ((x + 4))x(x - 4)) \times (4^2 + 4x + x^2) \\ &= ((x + 4))/((x(x - 4))) \end{aligned}$$

Question 87 :

The marked price of an item is 25% above its cost price. A shopkeeper sells it, allowing a discount of x % on the marked price. If he incurs a loss of 8%, then the value of x is

Difficulty : Moderate

Average Time : 97 Seconds

Options :



25.6%

2. 26.8%

3. 26.4%

4. 25.2%

Solution :

The correct answer is **option 3** i.e **26.4%**

Explanation:

Let the cost price of an article be 100.

Marked price = $100 \times 125/100 = 125$

Discount = $x\%$

Loss = 8%

Selling price = $100 \times 92/100 = 92$

Selling price = marked price - discount

Discount = $125 - 92 = 33$

$x\% = (33)/(125) \times 100 = 26.4\%$

Question 88 :

If x is added to each of 10, 16, 22 and 32, the numbers so obtained in this order are in proportion. What is the mean proportional between the numbers $(x + 1)$ and $(3x + 1)$?

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. 12

2. 9

3. 15

4. 10

Solution :

The correct answer is **option 3** i.e **15**

**Explanation:**

If x is added to each of numbers, the numbers so obtained in this order are in proportion

$$\text{so, } (10 + x)/(16 + x) = (22 + x)/(32 + x)$$

$$(10 + x)(32 + x) = (16 + x)(22 + x)$$

$$320 + 10x + 32x + x^2 = 352 + 16x + 22x + x^2$$

$$320 + 42x = 352 + 38x$$

$$4x = 32$$

$$x = 8$$

$$(x + 1) = 8 + 1 = 9$$

$$(3x + 1) = 24 + 1 = 25$$

$$\text{Mean proportional} = (9 \times 25) = 15$$

Question 89 :

What is the value of $(\operatorname{cosec}(78^\circ +) - \sec(12^\circ -) - \tan(67^\circ +) + \cot(23^\circ -)) / (\tan 13^\circ \tan 37^\circ \tan 45^\circ \tan 53^\circ \tan 77^\circ)$

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

1. 1

2. 0

3. 2

4. -1

Solution :

The correct answer is **option 2** i.e 0

Explanation:

$$(\operatorname{cosec}(78^\circ +) - \sec(12^\circ -) - \tan(67^\circ +) + \cot(23^\circ -)) / (\tan$$

$$13^\circ \tan 37^\circ \tan 45^\circ \tan 53^\circ \tan 77^\circ)$$

$$(\operatorname{cosec}(90^\circ - (12^\circ -)) - \sec(12^\circ -) - \tan(90^\circ - (23^\circ -)) + \cot(23^\circ -)) / (\tan$$

$$13^\circ \tan 37^\circ \tan 45^\circ \tan 53^\circ \tan 77^\circ)$$



$$\frac{(\sec(12^\circ -) - \sec(12^\circ -) - \cot(23^\circ -) + \cot(23^\circ -))}{(\tan 13^\circ \tan 37^\circ \tan 45^\circ \tan 53^\circ \tan 77^\circ)}$$
$$(0)/(\tan 13^\circ \tan 37^\circ \tan 45^\circ \tan 53^\circ \tan 77^\circ) = 0$$

Question 90 :

The average of some numbers is 54.6. If 75% of the numbers are increased by 5.6 each, and the rest are decreased by 8.4 each, then what is the average of the numbers so obtained?

Difficulty : Moderate**Average Time : 91 Seconds****Options :**

1. 55.6
2. 55.8
3. 56.7
4. 56.3

Solution :

The correct answer is **option 3** i.e **56.7**

Explanation:

New average of the numbers = (average + increment/decrements)

The average of some numbers = 54.6

75% of the numbers are increased by 5.6 each, and the rest are decreased by 8.4 each so,

New average of the numbers = $54.6 + (5.6 \times 75/100 - 8.4 \times 25/100) = 54.6 + 4.2 - 2.1 = 56.7$

Question 91 :

Diameter AB of a circle with center O is produced to a point P such that PO = 16.8 cm. PQR is a secant that intersects the circle at Q and R such that PQ = 12 cm and PR = 19.2 cm. The length of AB (in cm) is :

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

1. 14.2
2. 15.2
3. 15.8



14.4

Solution :The correct answer is **option 4** i.e **14.4**

We know that,

$$PQ \times PR = PB \times PA$$

Let 'r' be the radius of the circle.

$$12 \times 19.2 = (PO - r) \times (PA + r)$$

$$230.4 = (16.8 - r)(16.8 + r)$$

$$230.4 = 282.24 - r^2$$

$$r^2 = 51.84$$

$$r = 7.2 \text{ cm}$$

$$AB = 2r = 2(7.2)$$

$$14.4 \text{ cm}$$

Question 92 :

A boat can go 3.6 km upstream and 5.4 km downstream in 54 minutes, while it can go 5.4 km upstream and 3.6 km downstream in 58.5 minutes. The time (in minutes) taken by the boat in going 10 km downstream is:

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

1. 48

2. 50

3. 45

4. 54

Solution :The correct answer is **option 2** i.e **50****Explanation:**Let the speed of stream be u and speed of boat in still water be v .

Speed of boat in upstream = $u - v$

Speed of boat in downstream = $u + v$

A boat can go 3.6 km upstream and 5.4 km downstream in 54 minutes so,

Time = distance/speed

$$(3.6)/(u - v) + (5.4)/(u + v) = (54)/(60)$$

$$(3.6)/(u - v) + (5.4)/(u + v) = (9)/(10)$$

$$(36)/(u - v) + (54)/(u + v) = 9$$

$$4(u + v) + 6(u - v) = u^2 - v^2$$

$$10u - 2v = u^2 - v^2 \text{ ---(1)}$$

Boat can go 5.4 km upstream and 3.6 km downstream in 58.5 minutes so,

$$(5.4)/(u - v) + (3.6)/(u + v) = (58.5)/(60)$$

$$(54)/(u - v) + (36)/(u + v) = (585)/(60)$$

$$(6)/(u - v) + (4)/(u + v) = (13)/(12)$$

$$72(u + v) + 48(u - v) = 13(u^2 - v^2)$$

$$120u + 24v = 13(u^2 - v^2)$$

Put the value of eq(1),

$$120u + 24v = 13 \times (10u - 2v)$$

$$120u + 24v = 130u - 26v$$

$$10u = 50v$$

$$u = 5v \text{ ---(2)}$$

put the value of u in eq(1),

$$50v - 2v = 25v^2 - v^2$$

$$48v = 24v^2$$

$$v = 2$$

put the value of v in eq(2),

$$u = 5 \times 2 = 10$$

Speed of boat in downstream = $u + v = 10 + 2 = 12$

The time taken by the boat in going 10 km downstream = distance/speed = $10/12$ hours

= $60 \times 10/12 = 50$ min

Question 93 :

If $5 \cos - 12 \sin = 0$, then what is the value of $(1 + \sin + \cos)/(1 - \sin + \cos)$

Difficulty : Moderate

Average Time : 109 Seconds

Options :

1. $5/4$
2. $3/2$
3. $3/4$
4. $5/2$

Solution :

The correct answer is **option 2** i.e $3/2$

Explanation:

$$5\cos - 12 \sin = 0$$

$$\tan = (5)/(12)$$

We know that $\tan = (\text{perpendicular})/(\text{base})$ so,

By the triplet 5-12-13,

$$\text{Hypotenuse} = 13$$

$$\sin = (5)/(13)$$

$$\cos = (12)/(13)$$

$$(1 + \sin + \cos)/(1 - \sin + \cos)$$

$$(1 + 5/13 + 12/13)/(1 - 5/13 + 12/13)$$

$$(30)/(20) = 3/2$$

Question 94 :

The given table represents the sale (in thousands) of cars by four companies A, B, C and D in six years. Study the table and answer the question that follows. Company A B C D Year 2013 45 63 65 67 2014 52 49 60 69 2015 61 60 66 67



2016 72 58 70 63 2017 52 53 63 75 2018 3 67 76 74 The total number of cars sold by companies A in 2017 and C in 2013 is what percentage of the total number of cars sold by all four companies in 2013 and 2016? (correct to one decimal place)

Difficulty : Moderate

Average Time : 64 Seconds

Options :

1. 23.8
2. 24.2
3. 25.6
4. 23.3

Solution :

The correct answer is **option 4** i.e **23.3**

Explanation:

The total number of cars sold by companies A in 2017 and C in 2013 = $52 + 65 = 117$

The total number of cars sold by all four companies in 2013 = $45 + 63 + 65 + 67 = 240$

The total number of cars sold by all four companies in 2016 = $72 + 58 + 70 + 63 = 263$

The total number of cars sold by all four companies in 2013 and 2016 = $240 + 263 = 503$

Required percentage = $(117)/(503) \times 100 = 23.26\% \sim 23.3\%$

Question 95 :

If $11 \sin^2 \theta - \cos^2 \theta + 4 \sin \theta - 4 = 0$, $0^\circ < \theta < 90^\circ$, then what is the value of $(\cos 2\theta + \cot 2\theta)/(\sec 2\theta - \tan 2\theta)$

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. $(12+7\sqrt{3})/(6)$
2. $(12+5\sqrt{3})/(3)$
3. $(10+5\sqrt{3})/(3)$
4. $(10+7\sqrt{3})/(6)$

Solution :

The correct answer is **option 1** i.e $(12+7\sqrt{3})/(6)$

**Explanation:**

$$11 \sin^2 - \cos^2 + 4 \sin - 4 = 0$$

$$11 \sin^2 - (1 - \sin^2) + 4 \sin - 4 = 0$$

$$12 \sin^2 + 4 \sin - 5 = 0$$

$$12 \sin^2 + 10 \sin - 6 \sin - 5 = 0$$

$$2 \sin (6 \sin + 5) - 1(6 \sin + 5) = 0$$

$$(2 \sin - 1)(6 \sin + 5) = 0$$

For $0^\circ < \theta < 90^\circ$,

$$\sin \theta = 1/2$$

$$\theta = 30^\circ$$

$$(\cos 2\theta + \cot 2\theta) / (\sec 2\theta - \tan 2\theta)$$

On putting the value of θ ,

$$(\cos 2 \times 30 + \cot 2 \times 30) / (\sec 2 \times 30 - \tan 2 \times 30)$$

$$(\cos 60 + \cot 60) / (\sec 60 - \tan 60)$$

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

$$(2 + \sqrt{3}) / (2\sqrt{3}(2 - \sqrt{3}))$$

$$(2 + \sqrt{3}) / (4\sqrt{3} - 6)$$

$$(2 + \sqrt{3}) / (4\sqrt{3} - 6) \times (4\sqrt{3} + 6) / (4\sqrt{3} + 6)$$

$$((2 + \sqrt{3})(4\sqrt{3} + 6)) / ((4\sqrt{3})^2 - 6^2)$$

$$(8\sqrt{3} + 12 + 12\sqrt{3} + 6\sqrt{3}) / (12)$$

$$(12 + 7\sqrt{3}) / (6)$$

Question 96 :

If the radius of right circular cylinder is decreased by 10%, and the height is increased by 20%, then the percentage increase/decrease in its volume is:

Difficulty : Moderate

Average Time : 88 Seconds

Options :



increase by 2.8%

2. increase by 3.8%

3. increase by 1.8%

4. decrease quadrilateral by 2.8%

Solution :

The correct answer is **option 4** i.e **decrease quadrilateral by 2.8%**

Explanation:

Volume of right circular cylinder = r^2h

Radius of a right circular cylinder is decreased by 10%, and the height is increased by 20%

So,

$$r_1 = r \times 90/100 = 0.9r$$

$$h_1 = h \times 120/100 = 1.2h$$

$$\text{Volume of new right circular cylinder} = r_1^2 h_1 = (0.9r)^2 (1.2h) = 0.972(r^2 h)$$

$$\text{Decrements in volume} = r^2 h - 0.972(r^2 h) = 0.028(r^2 h)$$

$$\text{Percentage Decrements in volume} = (0.028(r^2 h)) / ((r^2 h)) \times 100 = 2.8\%$$

Question 97 :

ABCD is a cyclic quadrilateral which sides AD and BC are produced to meet at P, and sides DC and AB meet at Q when produced. If $\angle A = 60^\circ$ and $\angle ABC = 72^\circ$, then $\angle PDC - \angle DPC = ?$

Difficulty : Moderate

Average Time : 77 Seconds

Options :

1. 24°

2. 30°

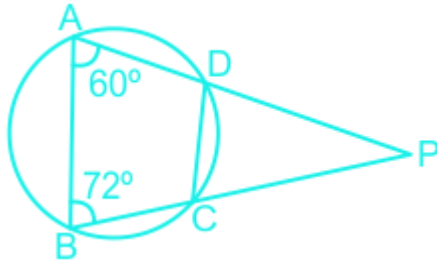
3. 36°

4. 4°

Solution :

The correct answer is **option 1** i.e 24°

Explanation:



In $\triangle ABP$,

$$A + ABC + APB = 180^\circ$$

$$APB = 180 - 60 - 72 = 48^\circ$$

$$ADC = 180 - ABC = 180 - 72 = 108^\circ$$

$$PDC = 180 - ADC = 180 - 108 = 72^\circ$$

Hence

$$PDC - DPC = 72 - 48 = 24^\circ$$

Question 98 :

In $\triangle PQR$, $PQ = 24$ cm and $\angle Q = 58^\circ$. S and T are the points on side PQ and PR, respectively, such that $\angle STR = 122^\circ$ and if $PS = 14$ cm and $PT = 12$ cm, then the length of RT is :

Difficulty : Moderate

Average Time : 79 Seconds

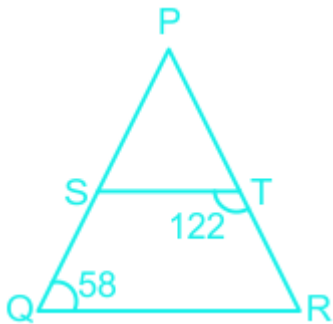
Options :

1. 14.8 cm
2. 16 cm
3. 15 cm
4. 16.4 cm

Solution :

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

Explanation:



$$\angle PTS + \angle STR = 180^\circ$$

$$\angle PTS = 180 - 122 = 58^\circ$$

$\angle P$ is a common angle.

$\triangle PQR$ and $\triangle PTS$ are similar triangles. So,

$$\frac{PT}{PQ} = \frac{PS}{PR}$$

$$\left(\frac{12}{24}\right) = \left(\frac{14}{PR}\right)$$

$$PR = 28 \text{ cm}$$

Hence,

$$RT = PR - PT = 28 - 12 = 16 \text{ cm}$$

Question 99 :

If $x^4 + x^2 y^2 + y^4 = 273$ and $x^2 - xy + y^2 = 13$, then the value of xy is :

Difficulty : Moderate

Average Time : 67 Seconds

Options :

1. 4
2. 10
3. 6
4. 8

Solution :

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

Explanation:



$$x^2 - xy + y^2 = 13 \text{ ---(1)}$$

$$x^4 + x^2 y^2 + y^4 = 273$$

$$x^2 + xy + y^2)(x^2 - xy + y^2) = 273 \text{ ---(2)}$$

put the value of eq (1) in eq (2)-

$$(x^2 + xy + y^2)(13) = 273$$

$$(x^2 + xy + y^2) = 21$$

$$(x^2 + xy + y^2 + xy - xy) = 21$$

$$(x^2 - xy + y^2 + 2xy) = 21$$

put the value from eq(1)

$$13 + 2xy = 21$$

$$2xy = 8$$

$$xy = 4$$

The value of xy is 4.

Question 100 :

If $20x^2 - 30x + 1 = 0$, then what is the value of $25x^2 + (1)/(16x^2)$

Difficulty : Moderate

Average Time : 69 Seconds

Options :

1. $53\frac{3}{4}$

2. $53\frac{3}{4}$

3. $20/4$

4. $53\frac{3}{4}$

Solution :

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

$$53\frac{3}{4}$$

Explanation:

$$20x^2 - 30x + 1 = 0$$

Dividing by x $20x - 30 + 1/x = 0$

$$20x + 1/x = 30$$

$$5x + 1/4x = 15/2 \quad 25x^2 + (1)/(16x^2)$$

$$= 25x^2 + (1)/(16x^2) + 2 \times 5x \times 1/4x - 2 \times 5x \times 1/4x$$

$$= 25x^2 + (1)/(16x^2) + (5/2) - (5/2)$$

$$= (5x + 1/4x)^2 - (5/2)$$

$$= (15/2)^2 - (5/2)$$

$$= (225/4) - (5/2)$$

$$= (215/4) = 53\frac{3}{4}$$

Ssc Cgl Tier I Previous Year Question Paper Analysis

The analysis of Ssc Cgl Tier I Previous Year Question Paper held on 2020-03-05 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 General Awareness, 25 questions were asked from Quantitative Aptitude, 25 questions were asked from Logical Reasoning and 25 questions were asked from English Language
4. 30 questions should have been skipped if you were short of time.

Ssc Cgl Tier I Previous Year Question Paper Topic Wise Weightage

General Awareness

- History - 3
- 2. Polity - 2
- 3. Economics - 2
- 4. Science - 5
- 5. GK Misc - 9
- 6. Current Affairs - 4

Quantitative Aptitude

- 1. Time And Work - 1
- 2. Geometry - 4
- 3. Quadratic Equation - 1
- 4. Data Sufficiency - 19

Logical Reasoning



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

English Language

- 1. Cloze Test - 25

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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