



Your Personal Exams Guide



NDA



CDS



SSC CGL



CBSE UGC NET



IAS



SSC CHSL



CTET



MPSC



AFCAT



CSIR UDC NET



IBPS PO



UP POLICE



SSC MTS



SBI PO



BPSC



UP TET



IBPS RRB



IBPS CLERK



IES



UPSC CAPF



SSC Stenogr..



RRB NTPC



SSC GD



RBI GRADE B



RBI Assistant



DSSSB

Agniveer Vayu Other than Science (Group Y) Other than science Memory Based Test (25 July 2022)

Total Time: 45 Minute

Total Marks: 50

Instructions

Sl No.	Section Name	No. of Question	Maximum Marks	Negative Marks	Positive Marks	Sectional Timing
1	English	20	20	0.25	1	20 Min
2	RAGA	30	30	0.25	1	25 Min

- 1.) A total of 45 minutes is allotted for the examination.
- 2.) The server will set your clock for you. In the top right corner of your screen, a countdown timer will display the remaining time for you to complete the exam. Once the timer reaches zero, the examination will end automatically. The paper need not be submitted when your timer reaches zero.
- 3.) There will, however, be sectional timing for this exam. You will have to complete each section within the specified time limit. Before moving on to the next section, you must complete the current one within the time limits.

English

1. Select the most appropriate synonym of the following given word: (+1, -0.25)

Abhorrent

- a. Innocuous
- b. Inoffensive
- c. Attractive
- d. Awful

2. Out of the given four words only one is spelled correctly. Find the word that is correctly spelled. (+1, -0.25)

- a. Democratic
- b. Suferred
- c. Weaher
- d. Horible

3. Direction: Select the segment of the sentence that contains the grammatical error. If there is no error, mark 'No error' as your answer. (+1, -0.25)

Hardly had he completed (A)/ his homework than the (B)/ lights went out.
(C)/ No error (D)

- a. A
- b. B
- c. C

d. D

4. Identify the word that is opposite in meaning of the word 'INADVERTENT'. (+1, -0.25)

- a. adequate
 - b. available
 - c. intentional
 - d. negligent
-

5. Direction: Choose the appropriate word for the given sentence: (+1, -0.25)

Your brother will be failed ----- he does not come tomorrow.

- a. if
 - b. though
 - c. unless
 - d. until
-

6. Direction: In the following question out of the four alternatives, choose the one which can be a substitute for the given word/sentence. (+1, -0.25)

One who eats everything

- a. Omnivorous
- b. Omniscient
- c. Irresistible

d. Insolvent

7. Select the most appropriate synonym for the given word. (+1, -0.25)

Fury

a. Crime

b. Sin

c. Anger

d. Risk

8. Select the most appropriate meaning of the given idiom. (+1, -0.25)

Draw the line at something

a. Coming to a conclusion

b. Making pencil sketches

c. Accept something up to a particular point

d. Agreeing to an idea

9. Give one word for 'one who hates women'. (+1, -0.25)

a. Misanthrope

b. Misogynist

c. Feminist

d. Effeminate

10. Directions: Choose the appropriate preposition for the given sentence: (+1, -0.25)

His path was beset _____ difficulties.

- a. with
- b. within
- c. among
- d. by

11. What is the antonym of the word given below? (+1, -0.25)

Initiate

- a. Start
- b. Begin
- c. Commence
- d. Finish

12. Select the correctly spelt word. (+1, -0.25)

- a. Attendance
- b. Attendence
- c. Attandence
- d. Attandance

13. Read the sentence to find out whether there is any error in it. The error, if any, will be in one part of the sentence. The number of that part is the answer. If there is no error, the answer is (5). Ignore errors of punctuation, if any. (+1, -0.25)

(1) How much boys/ (2) were present/ (3) in the assembly./ (4) No Error

- a. 2
- b. 4
- c. 3
- d. 1

14. Identify the segment in the sentence which contains the grammatical error. (+1, -0.25)

We went for swimming into the river on Sunday.

- a. We went for swimming
- b. into the
- c. river on
- d. Sunday

15. Direction: In the following question, out of the four alternatives, select the alternative which will improve the underlined part of the sentence. In case no improvement is needed, select "No improvement". (+1, -0.25)

No sooner Riya reached the station than she met her friend.

- a. Did Riya reached

- b. Did Riya reach
 - c. Riya did reached
 - d. No improvement
-

16. Direction :Change the Narration-

(+1, -0.25)

"What are you doing?" He said to me

- a. He asked me what I was doing.
 - b. He asked me what I were doing.
 - c. He asked me that what I was doing.
 - d. He asked me what he was doing.
-

17. The abstract noun of 'patient' is -----.

(+1, -0.25)

- a. Illness
 - b. Patience
 - c. Disease
 - d. Sickness
-

18. People in the villages of Rajasthan lead a very simple life. Their way of living has not changed over the years. They live in circular huts. The walls of these huts are covered with cowdung. Every hut has a small place for worship. The life of these people is full of difficulties. It is very hot in summers and cold in winters. Water is a major problem. Sometimes they have to walk a long distance to get drinking water. For their agriculture they depend on rains. But these people are very brave. They have learnt

(+1, -0.25)

to face difficulties and they never lose hope. They also like to enjoy their life. Women like to wear dresses full of bright colours. People living in villages in Rajasthan have a rich tradition of music and dance. The people of Rajasthan are very proud of their culture.

Which of the following is an adjective formed from the noun 'music'?

- a. musician
- b. musical
- c. musically
- d. musicality

-
19. People in the villages of Rajasthan lead a very simple life. Their way of living has not changed over the years. They live in circular huts. The walls of these huts are covered with cowdung. Every hut has a small place for worship. The life of these people is full of difficulties. It is very hot in summers and cold in winters. Water is a major problem. Sometimes they have to walk a long distance to get drinking water. For their agriculture they depend on rains. But these people are very brave. They have learnt to face difficulties and they never lose hope. They also like to enjoy their life. Women like to wear dresses full of bright colours. People living in villages in Rajasthan have a rich tradition of music and dance. The people of Rajasthan are very proud of their culture. (+1, -0.25)

Which of the following word is a synonym for 'brave'?

- a. hardworking
- b. valiant
- c. prosperous
- d. enthusiastic

20. People in the villages of Rajasthan lead a very simple life. Their way of living has not changed over the years. They live in circular huts. The walls of these huts are covered with cowdung. Every hut has a small place for worship. The life of these people is full of difficulties. It is very hot in summers and cold in winters. Water is a major problem. Sometimes they have to walk a long distance to get drinking water. For their agriculture they depend on rains. But these people are very brave. They have learnt to face difficulties and they never lose hope. They also like to enjoy their life. Women like to wear dresses full of bright colours. People living in villages in Rajasthan have a rich tradition of music and dance. The people of Rajasthan are very proud of their culture. (+1, -0.25)

'The way of living' can be replaced with the word

- a. livelihood
- b. liveliness
- c. lifelike
- d. lifestyle

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RAGA

21. _____, built in the 11th century, is dedicated to Lord Shiva and is considered as the largest temple of the city Bhubaneswar (Odisha). (+1, -0.25)

- a. Lingaraj Temple
 - b. Sun Temple
 - c. Badrinath Temple
 - d. Brihadeeswara Temple
-

22. Which city is scheduled to host the Summer Olympic Games 2024? (+1, -0.25)

- a. Paris
 - b. Tokyo
 - c. Los Angles
 - d. Beijing
-

23. Who among the following is the winner of the US Open 2021 Men's Singles Final? (+1, -0.25)

- a. Novak Djokovic
 - b. Daniil Medvedev
 - c. Rafael Nadal
 - d. Roger Federer
-

24. When is the Indian Air Force day celebrated? (+1, -0.25)

- a. 4 december
- b. 8 October
- c. 15 January
- d. 26 July

25. When the posts of both the President and the Vice President are vacant who among the following officiates as President? (+1, -0.25)

- a. The Prime Minister
- b. The Speaker of Lok Sabha
- c. The Chief Justice of Supreme Court
- d. The Lt. Governor of Delhi

26. Who came to India during the time of Chandragupta Maurya? (+1, -0.25)

- a. Faxian (Fa Hien)
- b. Xuanzang (Hiuen Tsang)
- c. Megasthenes
- d. Strabo

27. Full form of CNG is _____. (+1, -0.25)

- a. Combined Natural Gas
 - b. Compressed Natural Gas
 - c. Clean Natural Gas
 - d. Carbon Natural Gas
-

28. The value of $(256)^{0.16} \times (256)^{0.09}$ is (+1, -0.25)

- a. 5
 - b. 16
 - c. 4
 - d. 25
-

29. If Anuj walks at the speed of 4 km/hr, then he reaches his school 6 minutes late but if he walks at the speed of 5 km/hr, then he reaches 6 minutes before the scheduled time. What is the distance (in km) of his school from his house? (+1, -0.25)

- a. 4
 - b. 3
 - c. 6
 - d. 3.5
-

30. If $\sin^4 x + \sin^2 x = 1$ then what is the value of $\cot^4 x + \cot^2 x$? (+1, -0.25)

- a. -2

b. -1

c. 2

d. 1

31. 1 litre of water is added to 5 litres of alcohol-water solution which is containing 40% alcohol strength. The strength of alcohol in the new solution will be (+1, -0.25)

a. 30%

b. 33%

c. $33\frac{1}{3}\%$

d. $33\frac{2}{3}\%$

32. The length of a rectangle is twice its breadth. If its length is decreased by 5 cm and breadth is increased by 5 cm, the area of the rectangle is increased by 75 sq cm. What is the length of the rectangle? (+1, -0.25)

a. 18 cm

b. 16 cm

c. 40 cm

d. 20 cm

33. Three cubes of sides 1 cm, 6 cm and 8 cm are melted to form a new cube. Find half of the surface area of the new cube? (+1, -0.25)

a. 293 cm^2

b. 463 cm^2

c. 486 cm^2

d. 243 cm^2

34. Two cards are drawn successively without replacement from a well-shuffled pack of 52 cards. The probability of drawing two aces is. (+1, -0.25)

a. $\frac{12}{13}$

b. $\frac{15}{26}$

c. $\frac{9}{13}$

d. $\frac{1}{221}$

35. A ladder leaning against a wall makes an angle of 60° with the horizontal. If the foot of the ladder is 2.5 m away from the wall, find the length of the ladder. (+1, -0.25)

a. $5/\sqrt{3} \text{ m}$

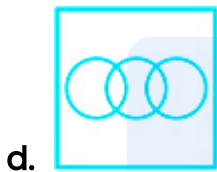
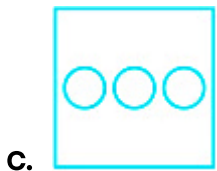
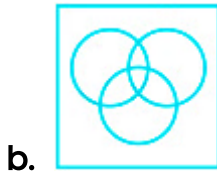
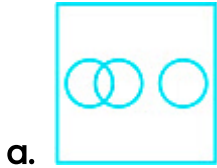
b. 5 m

c. 3 m

d. $3\sqrt{3} \text{ m}$

36. Select the Venn diagram that best represents the relationship between the following set of classes. (+1, -0.25)

Taller, Black hair people and Indians

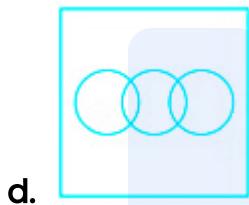
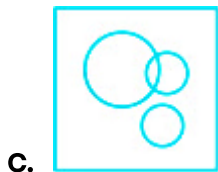
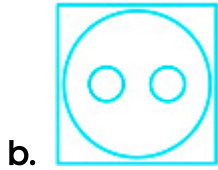
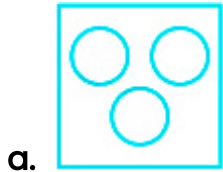


37. The angle (in degrees) between the hands of a clock at 8:15 is (+1, -0.25)

- a. 125.5
- b. 170.5
- c. 157.5
- d. 150.5

38. Select the Venn diagram that best represents the relationship between the following. (+1, -0.25)

Mother, Father and Engineer

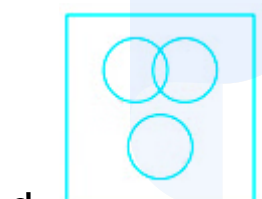
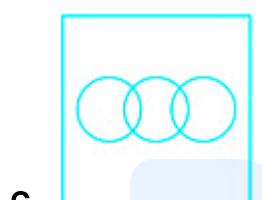
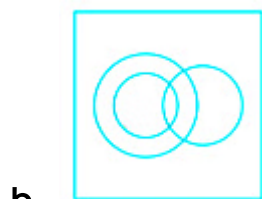
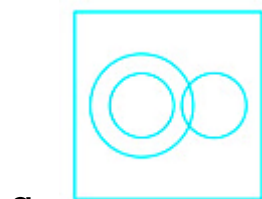


39. Find how many meaningful word can be form, from the 1st, 4th, 9th and 10th letter of a word "CORRUPTION". (+1, -0.25)

- a. One
- b. Two
- c. Three
- d. None

40. Select the Venn diagram that best represents the relationship between the following classes. (+1, -0.25)

Women, Mother, Doctor



41. If FOSTER = 36, DANCE = 25, then ORCHARD = ? (+1, -0.25)

- a. 50
- b. 64
- c. 49
- d. 67

42. Select the number that can replace the question mark (?) in the following series. (+1, -0.25)

423, 407, 439, 391, 455, ?

- a. 373
 - b. 375
 - c. 374
 - d. 407
-

43. Choose the correct alternative for the following:

(+1, -0.25)

Light : Blind :: Noise : ?

- a. Unsighted
 - b. Dumb
 - c. Deaf
 - d. Aphonic
-

44. Select the number that can replace the question mark (?) in the following series. (+1, -0.25)

1, 2, 6, 15, 31, 56, ?

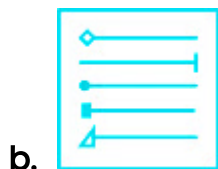
- a. 92
 - b. 148
 - c. 90
 - d. 93
-

45. If + means $\times$, $\times$ means $-$, $-$ means $\div$, and $\div$ means $+$, then what will be the value of the given expression? (+1, -0.25)

$$37 + 73 - 23 \div 32 \times 29 = ?$$

- a. 89.16
- b. 78.84
- c. 0.09
- d. 120.43

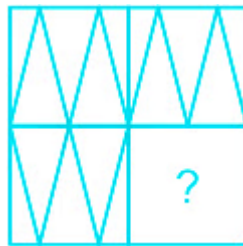
46. Select the figure from among the given options that can replace the question mark (?) in the following series. (+1, -0.25)





d.

47. Which answer figure will complete the pattern in the following question figure? (+1, -0.25)



a.



b.

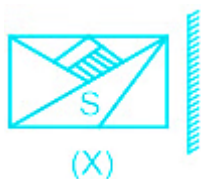


c.

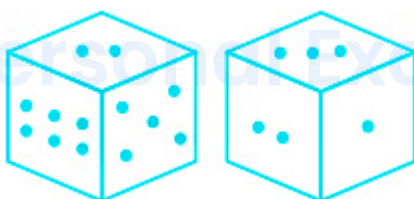


d.

48. Select the correct mirror image of figure (X) when the mirror is placed at the right side of the figure. (+1, -0.25)



49. Two different positions of the same dice are shown below, the six faces of which are numbered 1 to 6 dots. Find the number on the face opposite to the one having 2 dots. (+1, -0.25)





d.

50. Speaking to Imran, Salim said, "You are the Son of my only son-in-law. (+1, -0.25)
How is Salim wife related to Imran?

- a. Salim's wife is paternal grandmother of Imran
- b. Salim's wife is mother of Imran .
- c. Salim's wife is maternal grandmother of Imran
- d. Salim's wife is aunt of Imran .

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Answers

1. Answer: d

Explanation:

The correct answer is "**Awful**"

★ Key Points

- Let's see the meanings of the given words-
 - **Abhorrent**- causing or deserving strong dislike or hatred
 - **Example**- Racism of any kind is abhorrent to me.
 - **Innocuous**- completely harmless
 - **Example**- Some mushrooms look **innocuous** but are in fact poisonous.
 - **Inoffensive**- not causing any harm or offense.
 - **Example**- He seemed like a quiet, **inoffensive** sort of a guy.
 - **Attractive**- very pleasing in appearance or sound
 - **Example**- I find him very **attractive**
 - **Awful**- extremely bad or unpleasant
 - **Example**- He suffered **awful** injuries in the crash.
- Hence, the correct answer is **Option 4 i.e. "Awful"**

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2. Answer: a

Explanation:

The correct spelled word is "**Democratic**"

★ Key Points

- The correct spelling is "**Democratic**" which means "**based on the principles of democracy**"
 - Example- Do you think Australia is a more democratic country than Britain?
- Let's see the meanings of the other words-

- **Suffered**- to experience physical or mental pain
- **Weather**- the conditions in the air above the earth such as wind, rain, or temperature, especially at a particular time over a particular area
- **Horrible**- very unpleasant or bad

Hence, the correct answer is **Option 1 i.e. Democratic.**

3. Answer: b

Explanation:

The correct answer is **B.**

★ Key Points

- A conjunction is a word that is used for joining other words, phrases or sentences .
- Correlative conjunctions are pairs of words that connect two parts of a sentence that have an equal value or correlate with each other.
 - Examples: too...to, neither...nor, hardly...when, no sooner...than, etc.
- We must use the correct pair of correlatives.
- The correct pair is 'hardly...when' and not 'hardly...than' .
 - Example: **Hardly** had I reached the station **when** the train left.
- So, in the given sentence, 'than' should be replaced with 'when' to make it grammatically correct.

Correct sentence : *Hardly had he completed his homework **when** the lights went out.*

★ Additional Information

- When a sentence begins with a negative word like 'not', 'neither', 'no sooner', 'hardly', 'scarcely', etc., then the sentence will be in inversion , i.e., the helping verb will come before the subject .

★ Hinglish

- एक **conjunction** एक शब्द है जो अन्य **words, phrases** या **sentences** को जोड़ने के लिए उपयोग किया जाता है।
- **Correlative conjunctions** ऐसे शब्दों के जोड़े होते हैं जो एक वाक्य के दो हिस्सों को जोड़ते हैं जिनका एक समान मूल्य होता है या एक दूसरे के साथ सहसंबंधित होता है।
 - **उदाहरण:** too...to, neither...nor, hardly...when, no sooner...than , आदि।
- हमें सहसंबंधों की सही जोड़ी का उपयोग करना चाहिए।
- सही जोड़ी है 'मुश्किल से ... जब' और 'मुश्किल से ... नहीं'।
 - **उदाहरण:** **Hardly** had I reached the station **when** the train left.
- तो, दिए गए वाक्य में, '**than**' को '**when**' के साथ बदल दिया जाना चाहिए ताकि इसे व्याकरणिक रूप से सही किया जा सके।

4. Answer: c

Explanation:

The correct antonym is ' Intentional '.

★ Key Points

- The word ' Inadvertent ' means '**done or happening unintentionally** (अनजाने में किया या हो रहा है)'.
- The antonyms of the word ' Inadvertent ' are 'calculated, deliberate, intended, **intentional**, planned, premeditated, premeditative, prepense, set'.
- From the antonym of the given word, we can say that the word ' Intentional ' is the opposite in meaning .
- The word 'Intentional' means ' planned or intended (नियोजित या इरादा)'.

Hence, the correct answer is option 3 . Let's see the meaning of other given options:-

Words	Meaning
Adequate	enough or satisfactory for a particular purpose (किसी विशेष उद्देश्य के लिए पर्याप्त या संतोषजनक)
Available	able to be bought or used (खरीदा या इस्तेमाल किया जा सकता है)
Negligent	not being careful or giving enough attention to people or things that are your responsibility (सावधान न रहना या लोगों या उन चीज़ों पर पर्याप्त ध्यान न देना जो आपकी ज़िम्मेदारी हैं)

★ Additional Information

- The synonyms of the word 'Inadvertent' are 'accidental, casual, chance, fluky (also flukey), fortuitous, incidental, unintended, unintentional, unplanned, unpremeditated, unwitting'.
- Example of 'Inadvertent' in a sentence:
 - All authors need to be wary of **inadvertent** copying of other people's ideas.

5. Answer: a

Explanation:

The correct answer is 'if.'

★ Key Points

- We often use if to introduce possible or impossible situations or conditions and their results.
- The situations or conditions can be real, imagined, or uncertain.
 - Example: *I usually make a sandwich to take to work if I have enough time.*
- In this sentence, the use of 'though', 'unless', and 'until' would be incorrect.
 - Though: Though means 'in spite of something.'
 - It is a subordinating conjunction.
 - This means that the clause which they introduce is a subordinate clause, which needs a main clause to make it complete.

- When the *though* clause comes after the main clause, it can also mean 'but it is also true that ...'
 - Example: *We didn't make any profit though nobody knows why.*
- Unless: We use the conjunction *unless* to mean 'except if.'
 - Example: *They won't come unless you invite them.*
- Until : We use *until* as subordinating conjunction *to connect an action or an event to a point in time.*
 - Example: *We played chess until midnight.*
- Hence, the word, 'if' should be used to make the sentence grammatically correct.
- Hence, the correct answer is 'if .'
 - The Correct Sentence: *Your brother will be failed if he does not come tomorrow.*

★ Additional Information

- A conjunction is a joiner, a word that connects (conjoins) parts of a sentence.
- Coordinating conjunctions join equals to one another.
 - Example : *Most children like sweets and cookies.*
- Coordinating conjunctions go in between items joined, not at the beginning or end.
 - Example : *I like coffee, but I don't like tea.*

★ Hinglish Your Personal Exams Guide

- हम अक्सर संभावित या असंभव स्थितियों या स्थितियों और उनके परिणामों को पेश करने के लिए *if* का उपयोग करते हैं।
- परिस्थितियाँ वास्तविक, काल्पनिक या अनिश्चित हो सकती हैं।
 - Example: *I usually make a sandwich to take to work if I have enough time.*
- इस वाक्य में 'though', 'unless' और 'until' का प्रयोग गलत होगा।
 - Though : Though का मतलब है 'कुछ के बावजूद।'
 - यह एक subordinating conjunction है।
 - इसका अर्थ यह है कि वे जिस clause का परिचय देते हैं वह एक subordinate clause है, जिसे पूरा करने के लिए एक main clause की आवश्यकता होती है।
 - जब main clause के बाद though उपवाक्य आता है, तो इसका अर्थ यह भी हो सकता है कि 'लेकिन यह भी सत्य है कि...'

- Example: *We didn't make any profit though nobody knows why.*
- Unless : हम conjunction unless का अर्थ 'except if' हैं।
 - Example: *They won't come unless you invite them.*
- Until: हम until किसी क्रिया या घटना को समय पर एक बिंदु से जोड़ने के लिए एक subordinating conjunction के रूप में उपयोग करते हैं।
 - Example: *We played chess until midnight.*
- अतः वाक्य को व्याकरणिक रूप से शुद्ध करने के लिए 'if' शब्द का प्रयोग करना चाहिए।

6. Answer: a

Explanation:

The correct answer is 'Omnivorous.'

★ Key Points

- One who eats everything is known as 'Omnivorous.'
 - जो सब कुछ खाता है उसे 'सर्वभक्षी' ('Omnivorous') कहा जाता है।
 - Example : *Both species are omnivorous, feeding voraciously on fruits and insects.*
- Therefore, the correct answer is 'Omnivorous.'

★ Additional Information

- Let us discuss the meanings of other options:

Word	Meaning	अर्थ
Omniscient	knowing everything.	सब कुछ जानना।
Irresistible	too attractive and tempting to be resisted.	विरोध करने के लिए बहुत आकर्षक।
Insolvent	unable to pay debts owed.	बकाया कर्ज चुकाने में असमर्थ।

7. Answer: c

Explanation:

The correct answer is **Option 3**.

- **Fury:** wild or violent anger
- **Anger:** a strong feeling of annoyance, displeasure, or hostility.
- **Crime:** an action or omission which constitutes an offence and is punishable by law.
- **Sin:** an immoral act considered to be a transgression against divine law.
- **Risk:** a situation involving exposure to danger.

Anger is synonymous with **fury**.

8. Answer: c

Explanation:

The correct answer is option 3) i.e., 'Accept something up to a particular point'

★ Key Points

- Draw the line at something is an idiom that means **to set a limit on what one is willing to do or accept**.
 - Example – I **draw the line** at a pizza with anchovies on it
- So, **accept something up to a particular point** is the most appropriate meaning of the given idiom.

9. Answer: b

Explanation:

The correct answer is **Misogynist**.

★ Key Points

- A **Misogynist** is **a man who hates or discriminates against women**.
 - Example – Sheila knew that it would be difficult to get a top-level position in a company run by a **misogynist**.

Hence, **Option 2** is the correct answer.

★ Additional Information

- A **Misanthrope** is a person who hates or avoids other people.
- A **Feminist** is a person who supports equal rights and opportunity for all genders.
- An **Effeminate** is a man who exhibits feminine behavior.

10. Answer: a

Explanation:

The correct answer is 'with'.

★ Key Points

- The given sentence is saying something about someone's difficult path .
- The use of the word " beset " in the sentence indicates **be covered or studded with** .
- Therefore, the most appropriate preposition to be filled in the blank is 'with'.
- ' With ' means **having or possessing something** .
 - Example: *The plan was beset **with** difficulties from the beginning* .

Hence, the correct answer is option 1 .

Complete Sentence: *His path was beset **with** difficulties* .

★ Additional Information

- Let us explore the other options:
 - 'Within' means **inside something**.
 - 'Among' means **situated more or less centrally in relation to several other things**.
 - 'By' is used for identifying the agent performing an action.
-

11. Answer: d

Explanation:

The correct answer is **Finish**.

★ Key Points

Initiate: to cause something to begin

Finish: bring (a task or activity) to an end; complete

Thus, we can see that Initiate and Finish are antonyms.

★ Additional Information

The meaning of the other words:

- **Start**: to begin doing something
 - **Begin**: to start to do something
 - **Commence**: to begin something especially a shop or business.
 - **Initiate**: to take first step in doing something especially something new.
Start, Begin, Commence and Initiate are all near-synonyms.
-

12. Answer: a

Explanation:

The correct answer is **option 1), i.e. Attendance**.

★ Key Points

- The correct spelling of the word is ' **Attendance** '.
- The meaning of the word ' **Attendance** ' is ' the action of being present '. (उपस्थित होने की क्रिया)

13. Answer: d

Explanation:

★ Key Points

- Part 1 contains an error.
- We know that in case of uncountable nouns like milk, water, ,rice etc. we use much and not many but when the uncountable noun is supported by a countable noun like people, packet, bottle, bag etc. we should use many and not much.
- The question should start as *How many boys* .

Correct Sentence:How many boys were present in the assembly.

14. Answer: b

Explanation:

Option 2 is the right answer. It has an error.

A **preposition** is always **followed by an object**, which is a noun and never a verb.
[**subject +verb+ preposition+ object**]

It joins a noun, a pronoun, or noun phrases to the rest of the sentence **to show their relation**.

'**into**' shows motion. However, in the given sentence, **a location** is indicated ' **a river**'.

The correct preposition would be 'in', which indicates 'the location of the action'.

The correct sentence, thus, is -- **We went for swimming in the river on Sunday.**

15. Answer: b

Explanation:

The correct answer is "Did Riya reach"

★ Key Points

- In the given sentence 'no sooner' is used at the beginning of the sentence, we used inverted word order, i.e. Auxiliary verb comes after no sooner and before the subject. Another example of inverted word order is: 'nosooner did I reach the station than the train had already left'.
- If the sentence starts with the subject and not with no sooner than there is no need to use an auxiliary verb, for example, a given sentence can also be written as "Riya no sooner reached the station than she met her friend." this is also correct and conveys the same meaning.

Correct sentence: "No sooner did Riya reach the station than she met her friend."

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16. Answer: a

Explanation:

The correct answer is 'He asked me what I was doing.'

★ Key Points

- An interrogative sentence has a question.
- The rule for changing Direct Speech to Indirect Speech:
 - The given sentence is in Present Continuous Tense.
 - Present Continuous Tense changes to Past Continuous tense.

- Remove the commas and inverted commas.
- Do not use that in the sentence of indirect speech.
- The reporting verb said/said to is changed in asked, demanded, ordered, enquired as per the nature of the sentence.
- Remove the question mark in the sentence of Indirect speech.
- There are some questions that cannot be answered using 'YES/NO.'
 - To make the indirect speech of such questions, 'if/whether' will not be used.
 - The question is changed to assertive form and is simply placed after the reporting verb.
 - Example: *The boy said to Ram, "What is your name?"* (Direct speech)

The boy asked Ram what his name was. (Indirect speech)

- Therefore, the correct answer is 'He asked me what I was doing.'

★ Additional Information

- If the sentence of Direct speech has a question that cannot be answered by saying yes or no then it does not use "if" or "whether" in its Indirect speech.
 - Example: *She said to me, "Where did you buy this dress from?"* (Direct speech)

She asked me where I had bought that dress from. (Indirect speech)

★ Hinglish

- Interrogative वाक्य में एक प्रश्न होता है।
- Direct Speech को Indirect Speech में बदलने का नियम:
 - दिया गया वाक्य Present Continuous Tense में है।
 - Present Continuous Tense, Past Continuous tense में बदलता है।
 - Commas और inverted commas हटा दे।
 - Indirect speech के वाक्य में that प्रयोग न करें।
 - Said/said to रिपोर्टिंग verb वाक्य की प्रकृति के अनुसार asked, demanded, ordered, enquired में बदल जाती है।
 - Indirect speech के वाक्य में प्रश्न चिह्न हटा दें।
 - कुछ ऐसे प्रश्न हैं जिनका उत्तर 'YES/NO' में नहीं दिया जा सकता है।
 - ऐसे प्रश्नों को Indirect speech देने के लिए 'if/whether' का प्रयोग नहीं किया जाएगा।

- Question को assertive form में बदल दिया जाता है और केवल reporting verb के बाद रखा जाता है।
 - Example: *The boy said to Ram, "What is your name?"* (Direct speech)
The boy asked Ram what his name was. (Indirect speech)

17. Answer: b

Explanation:

The correct answer is- '**Patience**'

★ Key Points

- '**Patient**' is a common noun.
- An abstract noun is the name of feeling, quality or condition, etc.
- Some abstract nouns are formed by **removing the last letters** and adding a suffix to the common noun.
- '**Patient**' is such a common noun.
- Thus the correct answer is: 'Patience'

★ Additional Information

- Let's consider the usage of other words given in the options:
 - **Illness**: It is the abstract noun of ill.
 - **Disease**: It is a common noun.
 - **Sickness**: It is the abstract noun of sick.

18. Answer: b

Explanation:

The root word is '**music**' (noun), it is the pattern of sounds produced by people singing or playing instruments.

- **'Musical'** is an **adjective form of music**, it is something is connected with playing or studying music; something having a pleasant sound; melodious or tuneful.
- **Musician** (noun): A person who plays a musical instrument.
- **Musically** (adverb): In a way that relates to music.
- **Musicality** (noun): It is a talent or skill and understanding in performing music.

Hence, the word **'Musical'** is an **adjective** formed from the **noun 'Music'**.

19. **Answer: b**

Explanation:

A synonym is a word or phrase that means exactly or nearly the same as another word or phrase in the same language.

Meaning of Brave: Courageous, showing no fear, daring

'Valiant' is the synonym of the word 'Brave'.

- **Hardworking:** tending to work with energy and commitment
- **Prosperous:** fortunate financially, flourishing
- **Enthusiastic:** showing great excitement or interest

Hence, a synonym for the word **'Brave'** is **'Valiant'**.

20. **Answer: d**

Explanation:

' **The way of living** ' means the particular way that a person lives. It is the way you live including your style, attitudes and possessions.

- **Lifestyle** (noun): The way in which a person lives

- **Livelihood** (noun): The money you need to pay for food, place to live, clothing, etc.
- **Liveliness** (noun): The quality of being interesting and exciting.
- **Lifelike** (adjective): Accurately representing or imitating real life.

Hence, ' **The way of living** ' can be replaced with the word ' **Lifestyle** '.

21. Answer: a

Explanation:

The correct answer is Lingaraj Temple.

★ Key Points

- **Lingaraja Temple** is a **Hindu temple** dedicated to **Shiva** and is **one of the oldest temples in Bhubaneswar** , the **capital** of the state of **Odisha** .
- It was **built by King Jajati Keshari in the 10th Century** and **completed by King Lalatendu Keshari in the 11th Century** .
- The temple represents the **quintessence of Kalinga architecture** and culminates in the **medieval stages of the architectural tradition** at Bhubaneswar.

★ Additional Information

- **Konark Sun Temple** is a **13th-century CE Sun temple** at **Konark**, **near Puri city**, **Odisha** .
 - The temple is attributed to **king Narasimhadeva I of the Eastern Ganga dynasty** about **1250 CE** .
- **Badrinath Temple** is a **Hindu temple dedicated to Vishnu** situated in the town of **Badrinath in Uttarakhand** .
 - The temple is also **one of the 108 Divya Desams** dedicated to Vishnu, who is worshipped as **Badrinath**, **holy shrines for Vaishnavites** .
- **Brihadishvara Temple** is a **Hindu Dravidian-styled temple** dedicated to the **god Shiva** located on the **South bank of the Kaveri river in Thanjavur, Tamil Nadu** .

- The temple has a **massive colonnaded Prakara (corridor)** and is **one of the largest Shiva lingas** in India.
- It is also famed for the **quality of its sculpture** , as well as being the **location that commissioned the brass Nataraja** – Shiva as the lord of dance, in the **11th century** .

22. Answer: a

Explanation:

The correct answer is Paris.

★ Key Points

- The **2024 Summer Olympics** is a forthcoming international multi-sport event that is **scheduled to take place from 26 July to 11 August 2024 in Paris, France** .
- **Paris** will become the **second city** to host the **Olympics three times**, after London (1908, 1948, and 2012) .
- The **Olympic edition of 1900 and 1924** was hosted by Paris .
- The **2024 Games** will mark the **third time Paris** has staged the Olympics, coming exactly 100 years after they last hosted the Games.

★ Additional Information

- The **Motto of 2024 Paris Games** is **Made for Sharing** .
- **2022 Winter Olympics** will be held in **Beijing** .
- The official Mascot of the 2022 Winter Olympics Games is **Bing Dwen Dwen**.
- 2020 Summer Olympics rescheduled to 2021 will be held in **Tokyo, Japan**.
- The official Mascot of the 2020 Summer Olympics Games is **Miraitowa**.

23. Answer: b

Explanation:

The correct answer is Daniil Medvedev.

★ Key Points

- Russia's Daniil Medvedev was crowned champion of the **2021 US Open** after defeating world number one **Novak Djokovic** in the men's singles final.
- He clenched his maiden Grand Slam title with a straight-set victory against the Serbian (6-4, 6-4, 6-4).
- Medvedev has become the third Russian after **Yevgeny Kafelnikov** and **Marat Safin** to win a Grand Slam.



★ Additional Information

- Britain's **Emma Raducanu** became the first qualifier to capture a Grand Slam title by defeating Canada's 19-year-old **Leylah Fernandez** in the **2021 US Open women's final**.

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24. Answer: b

Explanation:

The correct answer is 8 October.

- The Indian Air Force day is celebrated on 8 October.

★ Key Points

- **Indian Air Force:**
 - Air Force day is celebrated on **8th October** every year.

- Indian Air Force was officially established on **8 October 1932** as an auxiliary air force of the British Empire.
- After India gained independence from the United Kingdom in 1947, the name **Royal Indian Air Force was kept till 1950** and after that the prefix Royal was removed.
- Since **October 8, 1932**, the day is celebrated every year as Air Force day
- **Air Chief Marshal Vivek Ram Chaudhari** is the current **Chief of Air Staff**.
 - He is the **27th Chief of the Air Staff**.

★ Additional Information

- Indian Navy Day is celebrated on **4 December**.
- Indian Army Day is celebrated on **15 January**.
- Kargil Vijay Diwas is celebrated on **26 July**.

25. Answer: c

Explanation:

The correct answer is **The Chief Justice of India**.

- **The Chief Justice of India** officially the **Chief Justice of the Supreme Court of India**, is the chief judge of the Supreme Court of India as well as the highest-ranking officer of the Indian federal judiciary.
- The Constitution of India grants power to the president of India to appoint, in consultation with the outgoing chief justice, the next chief justice, who will serve until they reach the age of sixty-five or are removed by impeachment.

★ Important Points

1. **The president (Discharge of Functions) Act, 1969 of India** provides that the chief justice of India shall act as the president of India in the event of the offices of both the president and the vice president being vacant.
2. **When President Zakir Hussain died in office, Vice President V. V. Giri, acted as the president. Later, Giri resigned as the vice president. The chief justice, Justice Mohammad Hidayatullah then became the acting president of India.**

3. As per the convention, the senior-most judge of the Supreme Court became the acting chief justice.
4. Example–*Mohammad Hidayatullah was the 11th Chief Justice of India.* He had also served as the *Acting President of India from 20 July 1969 to 24 August 1969 and from 6 October 1982 to 31 October 1982. In May 1969 when president Dr Zakir Hussain died, the then vice-president V.V.*

Hence, When the posts of both the president and the vice president are vacant, The Chief Justice of India officiates as President.

26. Answer: c

Explanation:

The correct answer is Megasthenes.

★ Key Points

- At the time of the treaty between the Greek ruler **Seleucus I Nicator** and the Indian ruler **Chandragupta Maurya**, he appears to have been serving as an officer under Sibyrtius.
- **Megasthenes** was an ancient Greek historian, diplomat and Indian ethnographer, and explorer in the Hellenistic period.
- **Megasthenes** wrote the book “ **Indica** ”.
- **Megasthenes** was a Greek ambassador of Seleucus I Nicator in the court of Chandragupta Maurya.

★ Additional Information

- **Huien Tsang** visited India in 630 A.D.– 645 A.D. He was a Chinese traveler. He visited India during the supremacy of Harsha Vardhana.
- **Abdur Razzak** visited India in 1443 A.D.– 1444 A.D. He was also an ambassador of Persia. He visited India during the rule of Deva Raya II of Vijayanagar.
- **Captain William Hawkins** visited India in 1608 A.D. – 1611 A.D. He visited India during the reign of Jahangir.

- Captain William Hawkins led the first expedition of the English East India Company to India in 1609.

27. Answer: b

Explanation:

The correct answer is Compressed Natural Gas.

★ Key Points

- The major component of bio-gas and Compressed Natural Gas (CNG) is Methane .
- **Bio-CNG contains about 92-98 % of methane** and only 2-8 % carbon dioxide.
 - The high methane content and calorific value combined with the low quantity of moisture, hydrogen sulphide and impurities makes Bio-CNG an ideal fuel for automobiles and power generation.
- **Compressed natural gas** is a fuel that can be used in place of gasoline, diesel fuel and liquefied petroleum gas (LPG).
 - CNG is made by compressing natural gas, which is mainly composed of methane (CH_4).

★ Additional Information

Fuel Gases	Major component	Uses
Compressed natural gas (CNG)	Methane Ethane	Can be used in place of gasoline, diesel fuel and liquefied petroleum gas (LPG)
Liquefied petroleum gas (LPG)	Butane Propane	LPG is used for cooking. - An alternative to electric heating, heating oil, or kerosene. - As it is odourless so Methyl Mercaptan is added to it so there may be a smell if LPG leaks from its storage container.

28. Answer: c

Explanation:

Formula used:

$$a^m \times a^n = a^{m+n}$$

$$(a^m)^n = a^{mn}$$

Calculation:

$$(256)^{0.16} \times (256)^{0.09}$$

$$\text{Since, } a^m \times a^n = a^{m+n}$$

$$\Rightarrow 256^{0.16+0.09} = 256^{0.25}$$

$$\Rightarrow 256^{1/4} = (16^2)^{1/4}$$

$$\text{As we know } (a^m)^n = a^{mn}$$

$$\Rightarrow 16^{1/2} = (4^2)^{1/2}$$

$$\therefore (256)^{0.16} \times (256)^{0.09} = 4$$

29. Answer: a

Explanation:

★ Shortcut Trick

Formula used:

Required distance is given by

$$D = \frac{S_1 \times S_2}{S_1 - S_2} \times (t_1 - t_2)$$

Whichever is greater can be taken first from S_1 and S_2 same for t_1

and t_2 greater one is taken first in subtraction

Calculation:

Let the correct time be 't'

$$\Rightarrow D = \frac{(4 \times 5)}{(5-4)} \times \frac{(t+6)-(t-6)}{60} \quad (\because 1 \text{ min} = 1/60 \text{ hr})$$

$$\Rightarrow D = 20 \times 12/60 = 4$$

$\therefore$ The required distance is 4 Km.

★ Alternate Method

Let the distance between school from house is D

Actual time at which he must have reached school = t in minutes

According to the question,

$$4 = D/(t + 6)$$

$$\Rightarrow D = 4(t + 6) \quad \text{----(i)}$$

And,

$$\Rightarrow D = 5(t - 6) \quad \text{----(ii)}$$

From eq. (i) and (ii)

$$4t + 24 = 5t - 30$$

$$t = 54 \text{ minutes}$$

$$\text{Distance, } D = [4 \times (54 + 6)]/60 = 4 \text{ km}$$

$\therefore$ The required distance is 4 Km.

30. Answer: d

Explanation:

Formula used:

- $1 - \sin^2 \theta = \cos^2 \theta$
- $\cos \theta / \sin \theta = \cot \theta$
- $\operatorname{cosec} \theta = 1 / \sin \theta$
- $1 + \cot^2 \theta = \operatorname{cosec}^2 \theta$

Calculation:

Given that

$$\sin 4x + \sin 2x = 1$$

$$\Rightarrow \sin^4 x = 1 - \sin^2 x$$

$$\Rightarrow \sin^4 x = \cos^2 x \quad \text{---(1)}$$

Now the required value

$$\Rightarrow \cot 4x + \cot 2x$$

$$\Rightarrow \cot^2(\cot^2 + 1)$$

$$\Rightarrow \cot^2 x \operatorname{cosec}^2 x \quad [\because 1 + \cot^2 \theta = \operatorname{cosec}^2 \theta]$$

$$\Rightarrow \frac{\cos^2 x}{\sin^2 x \sin^2 x}$$

$$\Rightarrow \frac{\cos^2 x}{\sin^4 x} = \frac{\cos^2 x}{\cos^2 x} = 1 \quad [\text{From eq (1)}]$$

$\therefore$ The value of $\cot 4x + \cot 2x$ is 1.

31. Answer: c

Explanation:

Given:

1 litre of water is added to 5 litres of alcohol-water solution containing 40% alcohol strength.

Calculations:

Alcohol in original solution = $(40/100) \times 5 = 2$ litres

Water in original solution = 3 litres

On adding 1-litre water, water becomes 4 litres.

Now, 6 litres of solution contains 2 litres of alcohol.

So 100 litres of solution contains

$$(2/6) \times 100 = 100/3 \%$$

$\therefore$ the correct answer is $33\frac{1}{3}\%$.

32. Answer: c

Explanation:

Given

The length of a rectangle is twice its breadth.

Length is decreased by 5 cm and breadth is increased by 5 cm.

Area of the rectangle is increased by 75 cm^2

Concept used

Area of rectangle = Length $\times$ Breadth

Calculation

Length is twice the breadth of the rectangle.

Length = $2x$ & breadth = x

Area = $2x^2$ ----- (1)

Length is decreased by 5 cm and breadth is increased by 5 cm.

Area is increased by 75 cm^2 .

$$\Rightarrow (2x - 5)(x + 5) = 2x^2 + 75$$

$$\Rightarrow 2x^2 + 10x - 5x - 25 = 2x^2 + 75$$

$$\Rightarrow 5x = 100$$

$$\Rightarrow x = 20$$

$$\therefore \text{Length of rectangle} = 2 \times 20 = 40 \text{ cm}$$

33. Answer: d

Explanation:

Given:

Ratio of sides = 1 : 6 : 8

Formula used:

The volume of cube = (Side)³

Surface area of cube = 6(side)²

Calculation:

Volume of new cube = Sum of the volume of three small cube

Since, the volume of cube = (Side)³

⇒ Volume of new cube = 6³ + 8³ + 1³

⇒ Volume of new cube = 729 cm³

Since, the side of cube = (volume)^{1/3}

⇒ Side of new cube = (729)^{1/3} = 9 cm

We know that, the surface area of cube = 6(side)²

⇒ Surface area of new cube = 6 × 9² = 486 cm²

∴ Half of the surface area = 243 cm²

34. Answer: d

Explanation:

Given:

A total playing card is 52, and the total Ace is 4

Concept used:

Probability = Number of favourable outcomes / Total number of Possible outcomes

Calculations:

Number of favorable outcomes is 4 Ace cards

Total number of playing cards is 52 cards

$$\text{Probability} = (4/52) \times (3/51)$$

$$\Rightarrow (1/13) \times (1/17) = 1/221$$

$\therefore$ The probability of drawing an ace from a deck of cards is $1/221$.

35. Answer: b

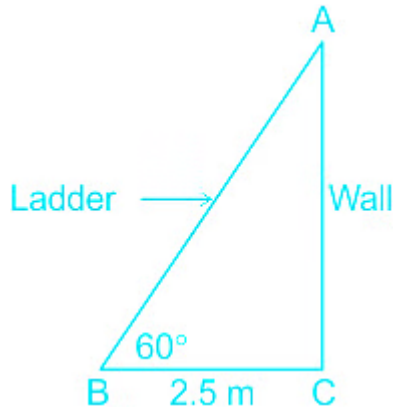
Explanation:

Formula used:

$$\cos \theta = \text{Base} / \text{Hypotenuse}$$

Calculation:

Let, the length of the ladder be L



By using the above formula;

$$\cos \theta = \text{Base} / \text{Hypotenuse}$$

$$\cos 60^\circ = 2.5/L$$

$$\Rightarrow 1/2 = 2.5/L \quad (\because \cos 60^\circ = 1/2)$$

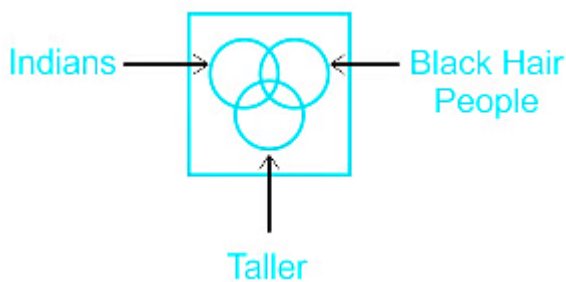
$$\Rightarrow L = 2 \times 2.5 = 5 \text{ m}$$

$\therefore$ The length of the ladder is 5 meters.

36. Answer: b

Explanation:

The correct Venn diagram representation is



- Some Indians are Black hair people.
- Some Taller are Indians.
- Some Black haired people are Taller.

Hence, the correct answer is "option (2)".

37. Answer: c

Explanation:

Angle traced by hour hand in 8:15 = $\theta = \frac{11M}{2} - 30H$

Angle $\theta = \frac{11 \times 15}{2} - 30 \times 8$

Angle $\theta = 157.5$

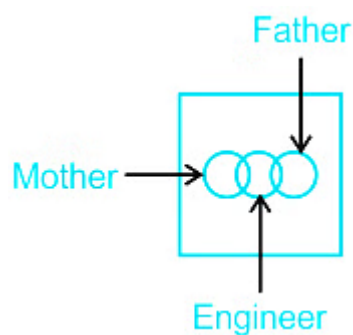
Hence, the correct answer is "option (3)".

38. Answer: d

Explanation:

The least possible Venn diagram for the given relation is shown below :

- Some Mothers are Engineers.
- Some Fathers are Engineers.



Hence, the correct answer is "option (4)".

39. Answer: a

Explanation:

C	O	R	R	U	P	T	I	O	N
1	2	3	4	5	6	7	8	9	10

1st letter = C

4th letter = R

9th letter = O

10th letter = N

Meaningful word = **CORN**

Therefore, only one meaningful word is formed.

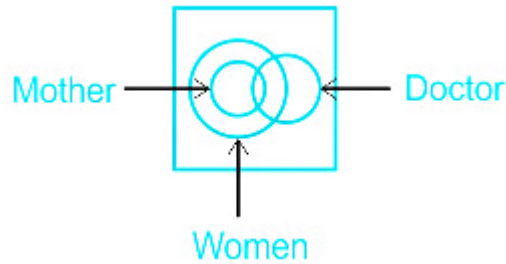
Hence, the correct answer is "option (1)".

40. Answer: b

Explanation:

The least possible Venn diagram for the given relation is a shown below :

- Some Doctors are Mothers.
- Some Women are Doctors.
- All Mothers are Women.



Hence, the correct answer is "option (2)".

41. Answer: c

Explanation:

The table shows the positional value of alphabets.

The logic followed here is:

$$\Rightarrow \text{FOSTER} = 6 \text{ letters} = (6)^2 = 36$$

$$\Rightarrow \text{DANCE} = 5 \text{ letters} = (5)^2 = 25$$

Similarly,

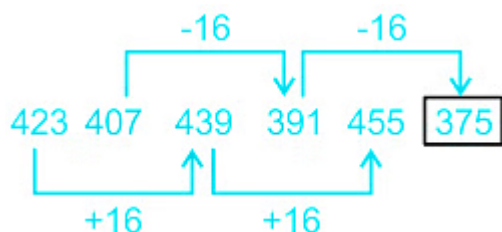
$$\Rightarrow \text{ORCHARD} = 7 \text{ letters} = (7)^2 = 49$$

Hence, the correct answer is "option (3)".

42. Answer: b

Explanation:

The logic followed here is:



Hence, the correct answer is "option (2)".

43. Answer: c

Explanation:

The logic followed here is :

A "Blind" cannot see the "Lights".

Similarly,

A "Deaf" cannot hear the "Noise".

Hence, the correct answer is "option (3)".

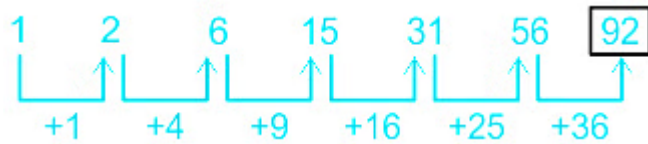
★ Additional Information

Word	Meaning
Un sighted	The one who cannot see
Dumb	The one who can not speak
Deaf	The one who can not hear the voice
Aphonic	The one who have no voice or sound

44. Answer: a

Explanation:

The logic followed here is:



Hence, the correct answer is "option (1)".

45. Answer: d

Explanation:

B	Brackets in order {}, {}, []	ब्रैकेट {}, {}, [] क्रम में
O	of	का
D	Division (÷)	विभाजन (÷)
M	Multiplication (×)	गुणा (×)
A	Addition (+)	जोड़ (+)
S	Subtraction (−)	घटाव (−)

Decoding the information,

Sign	+	×	−	÷
Means	×	−	÷	+

Given:

$$37 + 73 - 23 \div 32 \times 29 = ?$$

After replacing the signs from left to right and using the BODMAS rule,

$$= 37 \times \underline{73 \div 23} + 32 - 29$$

$$= \underline{37 \times 3.174} + 32 - 29$$

$$= \underline{117.43 + 32} - 29$$

$$= \underline{149.43} - 29$$

$$= 120.43$$

Hence, "120.43" is the correct answer.

46. Answer: d

Explanation:

The pattern followed here is:

- 1st position line went to fifth position and 2nd position line is rotated 180° and moves to 1st position, 3rd position line moves to 2nd position, 4th position line moves to 3rd position and 5th position line moves to 4th position in each figure.

∴ All the line with symbols facing right side are rotated 180° and faces left side in figure 5.

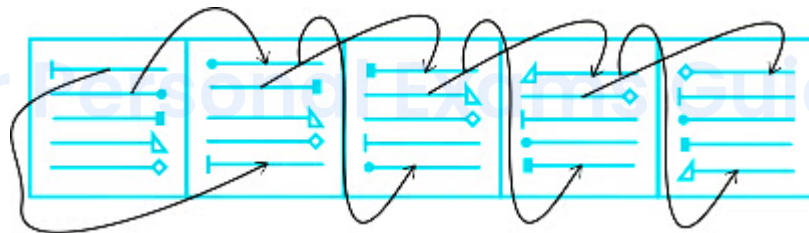


Figure 1 to figure 2 → 1st position line went to fifth position and 2nd position line is rotated 180° and moves to 1st position, 3rd position line moves to 2nd position, 4th position line moves to 3rd position and 5th position line moves to 4th position.

Figure 2 to figure 3 → 1st position line went to fifth position and 2nd position line is rotated 180° and moves to 1st position, 3rd position line moves to 2nd position, 4th position line moves to 3rd position and 5th position line moves to 4th position.

Figure 3 to figure 4 → 1st position line went to fifth position and 2nd position line is rotated 180° and moves to 1st position, 3rd position line moves to 2nd position, 4th

position line moves to 3rd position and 5th position line moves to 4th position.

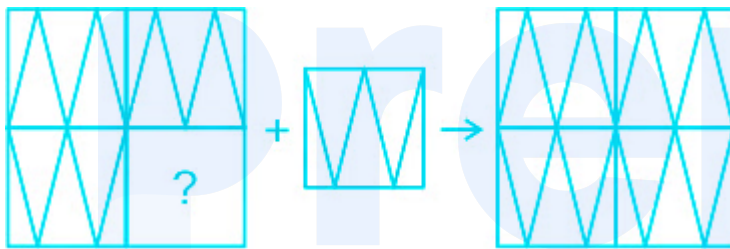
Figure 4 to figure 5 → 1st position line went to fifth position and 2nd position line is rotated 1800 and moves to 1st position, 3rd position line moves to 2nd position, 4th position line moves to 3rd position and 5th position line moves to 4th position.

Hence, the correct answer is "Option 4".

47. Answer: a

Explanation:

Completing the incomplete pattern:



Hence, the correct answer is "Option 1".

48. Answer: a

Explanation:

The mirror image of the question figure is as follows:

Hence, the correct answer is " Option (1)".

49. Answer: c

Explanation:

The faces with dots 5 and 6 are adjacent to the face with dots 2 in the first position

The faces with dots 1 and 3 are adjacent to the face with dots 2 in the second position.

The only number left is 4.

Hence, **4 dots (option 3)** are on the face opposite to the one having 2.

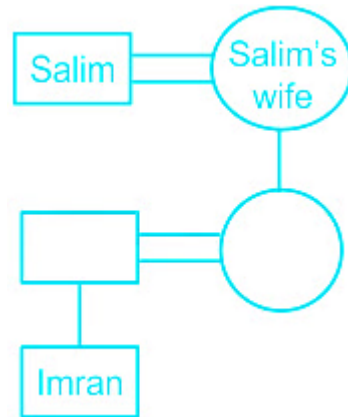
50. Answer: c

Explanation:

Preparing the family tree using the following symbols:

Symbol in Diagram	Meaning
	Female
	Male
	Married Couple
	Siblings
	Difference of A Generation

Speaking to Imran, Salim said, "You are the Son of my only son-in-law.



As it can be seen that Imran's wife is the maternal grandmother of Salim.

Therefore, the correct answer is **"Option 3"**.

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Your Personal Exams Guide