

Agniveer Vayu Other than Science (Group Y) - 24 July 2022 - Memory Based Paper

English

Question 1

Find the part of the given sentence that has an error in it. If there is no error, choose 'No error'.

It is a pleasure (1)/ to meet a (2)/cheerful persons (3)/ No error (4)

Options:

- A. No error
- B. cheerful persons
- C. It is a pleasure
- D. to meet a

Answer: B

Solution:

The correct answer is '**cheerful persons**', i.e. the error lies in this part of the sentence.



Key Points

- The error lies in the incorrect usage of noun.
- '**Persons**' needs to be replaced with '**person**'.
- The article used in the sentence i.e. '**a**' is used before a singular noun which gives a general idea.
- Thus, the usage of the plural noun '**persons**' is incorrect here.

Therefore the correct sentence is: '*It is a pleasure to meet a **cheerful person**.*'



Additional Information

- **Article:** Articles are words that define a noun as specific or unspecific.
- The definite article is the word **the**. It limits the meaning of a noun to one particular thing.

- **Example:** Please give me the red hammer, the blue one is too small.
- The indefinite article indicates that a noun refers to a general idea rather than a particular thing. The indefinite article takes two forms. It's the word a when it precedes a word that begins with a consonant. It's the word an when it precedes a word that begins with a vowel.
 - **Example:**
 - Please hand me a book; any book will do.
 - Please hand me an autobiography; any autobiography will do.

Question 2

Direction: Fill in the blank with appropriate word(s).

One who believes in no Government and therefore incites disorder in a state is called _____.

Options:

- A. a Naxalite
- B. an Autocrat
- C. a Monarchist
- D. an Anarchist

Answer: D

Solution:

The correct answer is '**an Anarchist**'.

Key Points

- Let us see the **meanings** of the words given in option:-

Word	Meaning
Naxalite	one who is a member of an armed revolutionary group advocating Maoist communism.
Autocrat	one who rules over a people with a sole, supreme, and usually hereditary authority.
Monarchist	one who supports the system of having a king or queen.

Anarchist	one who does not believe in government and wishes to destroy the existing government and laws.
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- From the meaning of the given words, we can say that *one who believes in no Government and therefore incites disorder in a state is called 'Anarchist'*.
- Hence, the correct answer is 'an Anarchist'.



Additional Information

- Let's see examples of some one-word substitution:-

Word	Meaning
Ambiguous	capable of being understood in either of two or more possible senses and therefore not definite
Autopsy	dissection of a dead body to find the cause of the death
Bohemian	one who does not follow the usual way of life
Arbitrator	someone who is designated to hear both sides of a dispute and make a judgement

Question 3

Direction: In each of the following questions, groups of four words are given. In each group, one word is correctly spelt. Find the correctly spelt word.

Options:

- A. impromptue
- B. illustrious
- C. illusery
- D. impetous

Answer: B

Solution:

The correct answer is **illustrious**.

Key Points

- **Illustrious** is the correctly spelt word.
- It means *notably or brilliantly outstanding because of dignity or achievements or actions*.
 - **Example:** She comes from an **illustrious** political family that includes two former Cabinet ministers.

Additional Information

- **Impromptue:** It is incorrectly spelt. The correct spelling is **impromptu** which means without being prepared or organized.
 - **Illusory:** It is incorrectly spelt. The correct spelling is **illusory** which means not real, although seeming to be.
 - **Impetous:** It is incorrectly spelt. The correct spelling is **impetuous** which means marked by force and violence of movement or action.
-

Question 4

The abstract noun of 'patient' is _____.

Options:

- A. Illness
- B. Patience
- C. Disease
- D. Sickness

Answer: B

Solution:

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.
-

Question 5

Select the most appropriate **ANTONYM** of the given word.

OPTIMISTIC

Options:

- A. Option
- B. Ophthalmology
- C. Positive
- D. Pessimistic

Answer: D

Solution:

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



Explanation:

- **Optimistic** refers to being hopeful and confident about the future.
- It is synonymous to being 'positive or hopeful.'



Important point:

Let us take a look at what the options mean:

1. **Option:** a thing that is or may be chosen.
 2. **Ophthalmology:** the branch of medicine concerned with the study and treatment of disorders of the eye.
 3. **Positive:** constructive, optimistic, or confident.
 4. **Pessimistic:** tending to see the worst aspect of things or believe that the worst will happen.
- Based on these meanings, **optimistic** refers to being positive or hopeful about things whereas **pessimistic** refers to believing the negative side of things and being less hopeful about the good.

Therefore, option 4 is the antonym of optimistic.

Question 6

Select the most appropriate meaning of the given idiom.

Draw the line at something

Options:

- A. Coming to a conclusion
- B. Making pencil sketches
- C. Accept something up to a particular point
- D. Agreeing to an idea

Answer: C

Solution:

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.
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Question 7

A sentence has been given in Active/Passive Voice. Out of the four given alternatives, select the one which best expresses the same sentence in Passive/Active Voice.

I promised my husband that I will cook food for him.

Options:

- A. A promise was made by me to my husband that food will be cooked by me.
- B. Food will be cooked by me was a promise I made to my husband.

C. I promised my husband that food will be cooked by me

D. My husband wanted a promise from me that I will cook the food.

Answer: A

Solution:

The correct answer is Option 1, i.e., ‘**A promise was made by me to my husband that food will be cooked by me**’.

The given sentence is in the Active voice, as the form of the verbs (‘promised’ and ‘will cook’) show that its subject (‘I’) is doing something and is ‘active’.

Therefore, it has to be changed to the Passive voice, where something is done by the subject and it is ‘passive’.

In order to do that:

- the verb should be changed from the Active voice to the Passive voice without changing its tense(‘promised’ to ‘was promised’ and ‘will cook’ to ‘will be cooked’)
- The object of the transitive verb in the Active voice should become the subject of the verb in the Passive voice.

The same sentence in the Passive voice should be ‘My husband was promised by me that food will be cooked for him by me’. However, none of the given options are framed this way.

It is Option 1 that comes the closest to expressing the given sentence in the Passive voice. ‘I promised my husband...’ is the same as ‘I made a promise to my husband...’, and the latter in the Passive is ‘A promise was made by me to my husband...’.

Therefore, **the correct answer is Option 1** as it comes the closest to expressing the given sentence in the Passive voice.

Option 2 is incorrect because it does not change the first half of the sentence to Passive voice.

Option 3 is incorrect because it does not change the first half of the sentence to Passive voice.

Option 4 is incorrect because it changes the very form of the original sentence by adding the verb ‘wanted’ and does not change the second half of the sentence to Passive voice.

Question 8

Choose the option that best expresses the meaning of the given idiom/phrase.

To fish in troubled waters

Options:

- A. fishing in a storm
- B. have trouble in catching fish
- C. to hunt large fish and earn more profit
- D. to make a personal profit out of a difficult situation

Answer: D

Solution:

The correct answer is- '**to make a personal profit out of a difficult situation.**'

Key Points

- The meaning of the given idiom is:
- **To fish in troubled waters** means *to try to take advantage of a confused situation.* (कठिन परिस्थिति का लाभ उठाने का प्रयास करना।)
 - **Example:** *The superpowers are there in West Asia to fish in troubled waters.*
- By the above meaning and example, we can say that '**to make personal profit out of a difficult situation**' is the correct answer.

Hence **option 4** is the appropriate answer.

Additional Information

- Let's learn about the origin of the given idiom:
 - This term, first recorded in **1568**, expresses that fish bite more readily when seas are rough but you can catch more fish in a rough sea.

Question 9

Direction: Read the given passage and answer the questions that follow.

Many of us have enjoyed visiting a zoo and consider it a day out having fun. Seeing real animals face to face can be thrilling and exciting, but many people wonder whether the

animals themselves while entertaining us, are suffering in the zoos. Many zoos do not have enough money to provide the animals with the basic features of a proper environment. Most animals are put in an artificial environment (e.g., cages). This isolation from their natural habitat can amount to cruelty. In some zoos, we see concrete floors for burrowing animals like rabbits. Cruelty may be shown in ways other than physical abuse or starvation.

Big predators like lions and tigers are created to chase and hunt. By depriving them of these activities, we forget the reason for which they have evolved. These big cats lie in cages in the zoo eating the food given to them and they have nothing else to do. Highly intelligent and curious animals like chimpanzees and polar bears may become frustrated in a zoo; they need a challenging environment.

Zoo supporters might argue that zoos provide educational opportunities to the visitors, especially children; if we didn't have animals in zoos, children wouldn't see them at all and be ignorant about them. We live at a time when animals in their natural habitat can be seen on TV or computers, even smartphones while sitting at home. Therefore, the aim should be to conserve animals in the wild, in protected areas called sanctuaries.

According to the passage, we visit zoos _____.

Options:

- A. to watch the frustration of animals in cages
- B. to see how animals behave in zoos
- C. to spend a day out for fun and excitement
- D. to see the animals in cages

Answer: C

Solution:

The correct answer is 'to spend a day out for fun and excitement'.



Key Points

- The first sentence of the passage says "*Many of us have enjoyed visiting a zoo and consider it a day out having fun*"
- From the above sentence, we can say that according to the passage, we visit zoos to spend a day out for fun and excitement.

Hence, the only possible answer is option 3.



Important Points

- Given below are the points, we should keep in mind while solving questions of reading comprehension-
 - **Identify the purpose of reading.** Try to go through the question first then the passage so that you can just focus on the things you need to look in the passage.
 - **Anticipate** what may lie ahead. Look out for **specific information** in the passage.
 - Read the passage quickly to get a general idea of meaning or to find **specific information**, e.g. **figures or names**.

Question 10

Choose the word that can substitute the given sentence.

The custom of having more than one wife at the same time

Options:

- A. Bigamy
- B. Misogyny
- C. Polygamy
- D. None of these

Answer: C

Solution:

The correct answer is- 'Polygamy'

Key Points

- **Polygamy** comes from the Late Greek word **polygamos**, meaning “often married.” (अक्सर विवाहित)
- The meaning of the root word 'poly' is **many**.
- **Words with the root word 'poly' are polygamy, polytechnic, polychromatic, etc.**
 - **Example:** *He believes in polygamy.*

Additional Information

- Let us see the meanings of other words:
 - **Bigamy:** The root word is 'bi' which means **two**. **Bigamy** means the offence of marrying someone while already married to another person. (मूल शब्द 'बी' है जिसका अर्थ है दो। बिगैमी का अर्थ है किसी से शादी करने का अपराध, जबकि पहले से ही किसी अन्य व्यक्ति से शादी हो चुकी है)
 - **Example:** *In cultures where monogamy is mandated, bigamy is the act of entering into a marriage with one person while still legally married to another.*
 - **Misogyny:** **Misogyny** refers specifically to a hatred of women. The word is formed from the Greek roots **misein** (“to hate”) and **gynē** (“woman”). (Misogyny विशेष रूप से महिलाओं के प्रति घृणा को संदर्भित करता है। यह शब्द ग्रीक मूल के माइसीन ("नफरत करना") और गाइन ("महिला") से बना है।)
 - **Example:** *This is an industry with a deserved reputation for rampant, entrenched misogyny.*

Hinglish

- **Polygamy** लेट ग्रीक शब्द पॉलीगैमोस से आया है, जिसका अर्थ है "अक्सर विवाहित।"
- 'Poly' मूल शब्द के अर्थ अनेक हैं।
- 'Poly' मूल शब्द वाले शब्द **polygamy, polytechnic, polychromatic etc.** हैं।
 - **Example:** *He believes in polygamy.*

Prefix, Root, Suffix	Meaning
pseudo	not genuine, false
alter	other
intro-	inside
extro-	outside

verto-	turn
ambi-	both
misein	hate
hetero	different
mono	one
gamos	marriage

Question 11

Fill in the blank with the most appropriate word.

They _____ football when it started raining.

Options:

- A. play
- B. are playing
- C. have been playing
- D. were playing

Answer: D

Solution:

The correct answer is "**Were playing**"



Key Points

- The second case is using the “when” conjunction to emphasize the order of two short-term actions. Here, the “when” conjunction emphasizes the first continuous action rather than interrupting actions.
- (Past Continuous Tense) (When) + (Simple Past Tense)
- Let's see an example-
 - John **was playing** the guitar when **Linda came in**.
- **Hence, the correct sentence is- *They were playing football when it started raining.***

Question 12

Direction: Read the given passage and answer the questions that follow.

Many of us have enjoyed visiting a zoo and consider it a day out having fun. Seeing real animals face to face can be thrilling and exciting, but many people wonder whether the animals themselves while entertaining us, are suffering in the zoos. Many zoos do not have enough money to provide the animals with the basic features of a proper environment. Most animals are put in an artificial environment (e.g., cages). This isolation from their natural habitat can amount to cruelty. In some zoos, we see concrete floors for burrowing animals like rabbits. Cruelty may be shown in ways other than physical abuse or starvation.

Big predators like lions and tigers are created to chase and hunt. By depriving them of these activities, we forget the reason for which they have evolved. These big cats lie in cages in the zoo eating the food given to them and they have nothing else to do. Highly intelligent and curious animals like chimpanzees and polar bears may become frustrated in a zoo; they need a challenging environment.

Zoo supporters might argue that zoos provide educational opportunities to the visitors, especially children; if we didn't

have animals in zoos, children wouldn't see them at all and be ignorant about them. We live at a time when animals in their natural habitat can be seen on TV or computers, even smartphones while sitting at home. Therefore, the aim should be to conserve animals in the wild, in protected areas called sanctuaries.

According to the passage, animals in zoos suffer cruelty:

Options:

- A. by being kept in artificial environments
- B. by being physically tortured or abused
- C. by being starved to death
- D. by being forced to perform for the visitors

Answer: A

Solution:

The correct answer is 'by being kept in artificial environments'.

Key Points

- The fourth sentence of the first paragraph says "*Most animals are put in an artificial environment (e.g., cages)*" and the fifth sentence of the first paragraph says "*This isolation from their natural habitat can amount to cruelty*".
- From the above sentences, we can say that according to the passage, animals in zoos suffer cruelty by being kept in artificial environments.

Hence, the only possible answer is option 1.

Important Points

- Given below are the points, we should keep in mind while solving questions of reading comprehension-
 - **Identify the purpose of reading.** Try to go through the question first then the passage so that you can just focus on the things you need to look in the passage.
 - **Anticipate** what may lie ahead. Look out for **specific information** in the passage.

- Read the passage quickly to get a general idea of meaning or to find specific information, e.g. figures or names.

Question 13

Directions: Choose the correct synonym (word with similar meaning) of the head word from the four options given and mark the right option.

PONDER

Options:

- A. evaluate
- B. think
- C. anticipate
- D. increase

Answer: B

Solution:

The correct answer is '**think**'.



Key Points

- The word '**Ponder**' means to give serious and careful thought.
- The **synonyms** of the word '**Ponder**' are "**think, analyze, explore**".
- **From** the **synonym** of the given word, we can say that the word '**Think**' has the **same meaning**.
- The word '**Think**' means to have a particular opinion, belief, or idea.

Hence, the correct answer is **option 2**. Let's see the **meaning** of other given options:-

WORDS	MEANING
Evaluate	form an idea of the amount, number, or value; assess
Anticipate	regard as probable; expect or predict
Increase	become or make greater in size, amount,

Additional Information

- The **antonyms** of the word 'Ponder' are "**disregard, ignore, dismiss**".
- **Example of 'Ponder' in a sentence:**
 - *We intend to **ponder** all the alternatives before acting.*

Question 14

Directions: Read the following information carefully and answer the given questions.

India has always been an utmost inspiration for the world at large for her fabulous wealth, both material and economic prosperity as well as her spiritual excellence. It brought here both traders and invaders along with preachers and seekers in search of truth and salvation. All of them came through land routes by undertaking long and hazardous journeys which put a lot of stress and strain on their physique and nerves. Thus, the troops of Alexander mutinied and refused to march beyond Beas because of their weariness and fatigue in fighting and homesickness. They had, therefore, to be perforce dispatched back. Many invading tribes like Khushans, Huns and Sakas in the ancient era and The Turks, and Mughals during the medieval age, however, chose to make this land their own home and absorbed themselves in the stream of her life. They attempted their best to bring more and more luster to her glory and enriched her culture, heritage and tradition.

Find out the word from the passage which means 'accomplishment'?

Options:

- A. Lack
- B. Prosperity
- C. Failure
- D. Stagnation

Answer: B

Solution:

The correct answer is 'Prosperity'.

Key Points

- '**Prosperity**' means the state of being successful and having a lot of money, a situation in which people are successful and have a lot of money.
- For example:
 - The war was followed by a long period of peace and prosperity.

- '**Accomplishments**' means something that is successful, or that is achieved after a lot of work or effort, something done or finished successfully.
- For example:
 - Getting the two leaders to sign a peace treaty was his greatest accomplishment.
- According to the above explanation '**Prosperity and accomplishment**' are same in their meanings, thus, make a synonym pair.
- Thus, **option 2** will be the correct answer.



Additional Information

Let's look at the meanings of other given options:

- **Lack:** it means the fact that something is not available or that there is not enough of it, to not have or not have enough of something that is needed or wanted.
- **Failure:** it means the fact of someone or something not succeeding, the fact of not doing something that you must do or are expected to do.
- **Stagnation:** it means to stay the same and not grow or develop, to not move or flow, often resulting in it becoming dirty.

Question 15

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.

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

Options:

- A. musician
- B. musical
- C. musically
- D. musicality

Answer: B

Solution:

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**’.

Question 16

Directions: Read the following information carefully and answer the given questions.

India has always been an utmost inspiration for the world at large for her fabulous wealth, both material and economic prosperity as well as her spiritual excellence. It brought here both traders and invaders along with preachers and seekers in search of truth and salvation. All of them came through land routes by undertaking long and hazardous journeys which put a lot of stress and strain on their physique and nerves. Thus, the troops of Alexander mutinied and refused to march beyond Beas because of their weariness and fatigue in fighting and homesickness. They had, therefore, to be perforce dispatched back. Many invading tribes like Khushans, Huns and Sakas in the ancient era and The Turks, and Mughals during the medieval age, however, chose to make this land their own home and absorbed themselves in the stream of her life. They attempted their best to bring more and more luster to her glory and enriched her culture, heritage and tradition.

Find out the word from the text which means 'involving or exposing one to risk.'

Options:

- A. Absorbed
- B. Hazardous
- C. Inspiration
- D. Homesickness

Answer: B

Solution:

The correct answer is '**hazardous**'.

Key Points

- "**Hazardous**" means **dangerous**, and involving risk, especially to someone's health.
- For example:

- We work in **hazardous** condition.

Thus, "**hazardous**" means 'involving or exposing one to risk'.



Additional Information

Let's look at the meanings of other given options:

- **Absorbed:** it means very interested in something and not paying attention to anything else.
 - **Inspiration:** it means someone or something that gives you ideas for doing something, someone that people admire and want to be like.
 - **Homesickness:** it means the feeling of being unhappy because of being away from home for a long period.
-

Question 17

Select the most appropriate synonym of the given word.

Fatigue

Options:

- A. Punish
- B. Tiredness
- C. Curious
- D. Boast

Answer: B

Solution:

The correct answer is '**Tiredness**'.



Key Points

- The word **Fatigue** (noun) means- "extreme tiredness resulting from mental or physical exertion or illness". (मानसिक या शारीरिक परिश्रम या बीमारी के परिणामस्वरूप अत्यधिक थकान)
 - E.g: *She was suffering from fatigue.*
- The synonyms of the given word **Fatigue** are- '**Tiredness**', '**weariness**', '**lethargy**', '**debility**', '**exhaustion**', etc.
- From the **synonyms of the given word**, we can say that the word '**Tiredness**' is similar in meaning.

- The word **Tiredness** (noun) means- "the feeling that you are in need of rest or sleep". (यह महसूस करना कि आपको आराम या नींद की ज़रूरत है)
 - E.g: *His constant **tiredness** was caused by depression.*
- Hence, the correct option is **Option 2**.
- Let's have **look at the meaning** of other given options:
 - **Punish** (verb)- "inflict a penalty or sanction on someone for such an offence". (इस तरह के अपराध के लिए किसी पर जुर्माना या मंजूरी देना)
 - **Curious** (adjective)- "interested in learning about people or things around you". (अपने आसपास के लोगों या चीजों के बारे में जानने में रुचि रखते हैं)
 - **Boast** (verb)- "to speak too proudly or happily about what you have done or what you own". (आपने जो भी किया है या जो भी आपके पास है, उसके बारे में बहुत गर्व या खुशी से बोलें)

Additional Information

- The antonyms of the given word **Fatigue** are- 'Refresh', 'energy', 'strength', 'spirit', etc.
- **Example of 'Fatigue' in a sentence:**
 - *The crash was caused by metal **fatigue** in one of the propeller blades.*

Question 18

In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

Rohan _____ for this company since 2007.

Options:

- A. has been working
- B. is working
- C. had worked
- D. worked

Answer: A

Solution:

Correct option - 1

Here, concept of present perfect continuous tense is being focused. Words since and for are used in a sentence to show an action which has already started and still going on. They are used in case of perfect continuous tense. Following is the pattern for present continuous tense:- Sub + has/have + been + V4 + Object.

Hence, option 1 i.e. **has been working** is the correct answer.

Correct sentence -Rohan has been working for this company since 2007.

Question 19

Give one word for 'one who hates women'.

Options:

- A. Misanthrope
- B. Misogynist
- C. Feminist
- D. Effeminate

Answer: B

Solution:

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.
-

Question 20

Direction: In the following question out of the four alternatives, choose the one which can be a substitute for the given word/sentence.

One who eats everything

Options:

A. Omnivorous

B. Omniscient

C. Irresistible

D. Insolvent

Answer: A

Solution:

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।

Question 21

If 20% of X = 30% of Y, then X : Y = ?

Options:

A. 3 : 2

B. 2 : 3

C. 1 : 2

D. 2 : 1

Answer: A

Solution:

Given:

$$20\% \text{ of } X = 30\% \text{ of } Y$$

Calculation:

$$(20/100) \times X = (30/100) \times Y$$

$$\Rightarrow (1/5) \times X = (3/10) \times Y$$

$$\Rightarrow X/Y = (5 \times 3)/10$$

$$\Rightarrow X/Y = 15/10$$

$$\Rightarrow X/Y = 3/2$$

$$\Rightarrow X : Y = 3 : 2$$

\therefore The ratio between X and Y is 3 : 2.

Question 22

Successive discounts of 20% and 30% are equivalent to a single discount of

Options:

A. 40%

B. 35%

C. 44%

D. 42%

Answer: C

Solution:

Given:

Two successive discounts = 20%,30%

Formula used:

$$\text{Single discount} = x + y + \frac{xy}{100}$$

(where x and y are successive discounts)

Calculations:

$$\text{Single discount} = -20-30 + \frac{(-20)(-30)}{100}$$

$$\Rightarrow -50+6$$

$$\Rightarrow -44\%$$

Here, a negative sign shows the discount.

\therefore The correct answer is 44%

Question 23

Find LCM of $\left(\frac{3}{8}, \frac{2}{6}, \frac{4}{7}\right)$.

Options:

A. $\frac{1}{186}$

B. 16

C. $\frac{1}{168}$

D. 12

Answer: D

Solution:

Concept:

LCM of fractions = (LCM of Numerators)/(HCF of Denominators)

Calculation:

LCM of Numerators = LCM (3, 2, 4) = 12

HCF of Denominators = HCF (8, 6, 7) = 1

LCM of $\left(\frac{3}{8}, \frac{2}{6}, \frac{4}{7}\right)$

$\Rightarrow \frac{12}{1} = 12$

Hence, option 4 is the correct answer.

Question 24

Rs. 68,000 is divided among A, B, and C in the ratio of $\frac{1}{2} : \frac{1}{4} : \frac{5}{16}$. The difference between the greatest part and the smallest part is

Options:

A. Rs. 18000

B. Rs. 16000

C. Rs. 17500

D. Rs. 16500

Answer: B

Solution:

Concept:

If N is divided b/w A, B & C in the ratio $a : b : c$ then

$$\text{Share of A} = \left[\frac{a}{a+b+c} \right] \times N$$

$$\text{Share of B} = \left[\frac{b}{a+b+c} \right] \times N$$

$$\text{Share of C} = \left[\frac{c}{a+b+c} \right] \times N$$

Calculation:

$$\text{Given ratio is } \frac{1}{2} : \frac{1}{4} : \frac{5}{16}$$

$$\text{LCM of } (2, 4, 16) = 16$$

Multiply the given ratio with 16

$$\Rightarrow \left(\frac{1}{2} \times 16 \right) : \left(\frac{1}{4} \times 16 \right) : \left(\frac{5}{16} \times 16 \right)$$

$$\Rightarrow 8 : 4 : 5 :: A : B : C$$

$$\text{Greatest part} = \frac{8}{8+4+5} = \frac{8}{17}$$

$$\text{Smallest part} = \frac{4}{8+4+5} = \frac{4}{17}$$

Therefore, the required difference

$$\Rightarrow \left(\frac{8}{17} - \frac{4}{17} \right) \times 68000$$

$$\Rightarrow \left(\frac{4}{17} \right) \times 68000 = 16000$$

\therefore The difference between the greatest part and the smallest part is Rs. 16000.

Question 25

The non terminating number $0.2\overline{35}$ is equal to

Options:

A. $\frac{235}{900}$

B. $\frac{235}{990}$

C. $\frac{230}{990}$

D. $\frac{233}{990}$

Answer: D

Solution:

Given:

The non terminating recurring number = 0.23535..

Calculation:

Let the number be x.

$$x = 0.23535$$

$$10x = 2.353(i)$$

$$1000x = 235.353....(ii)$$

Subtracting (i) from (ii),

$$990x = 235.353 - 2.353$$

$$990x = 233$$

$$x = 233/990$$

∴ Option 4 is correct.

Question 26

Kapil purchase the cycle for 2000 Rs and sold it for 2100 Rs. then profit % is?

Options:

A. 2 %

B. 3 %

C. 5 %

D. 4 %

Answer: C

Solution:

Given:

Cost price = 2000 Rs

Selling Price = 2100 Rs

Formula used:

$$\text{Profit \%} = [(\text{SP} - \text{CP})/\text{CP}] \times 100$$

Calculation:

Using the above formula

$$\text{Profit \%} = [(2100 - 2000)/2000] \times 100$$

$$\Rightarrow \text{Profit \%} = (100/2000) \times 100 = 5$$

\therefore Kapil sold the cycle at 5 % of the profit.

Question 27

If 391 is divided A, B and C in the ratio $\frac{1}{2} : \frac{2}{3} : \frac{3}{4}$, then A B & C will be

Options:

A. 102, 136, 153

B. 110 140, 160

C. 90, 102, 114

D. None of the above

Answer: A

Solution:

Calculation:

We have $\frac{1}{2} : \frac{2}{3} : \frac{3}{4}$

LCM of (2, 3, 4) is 12

Multiply the given fraction with 12

$$\Rightarrow 12 \times \frac{1}{2} : 12 \times \frac{2}{3} : 12 \times \frac{3}{4}$$

$$\Rightarrow 6 : 8 : 9$$

Since, sum = 391

$$\Rightarrow (6 + 8 + 9) \text{ unit} = 391$$

$$\Rightarrow 23 \text{ unit} = 391$$

$$\Rightarrow 1 \text{ unit} = 17$$

Hence, A, B & C will be

$$\Rightarrow 17 \times 6, 17 \times 8, 17 \times 9$$

$$\therefore 102, 136, 153$$

Question 28

If A and B can complete a piece of work in 60 days and 20 days respectively. If both work together, then find the time taken by them to complete the work together.

Options:

A. 24

B. 15

C. 12

D. 20

Answer: B

Solution:

Calculation:

$$\text{Total work} = \text{LCM of } (60, 20) = 60$$

$$\text{Efficiency of A} = 60/60 = 1$$

Efficiency of Y = $60/20 = 3$

Efficiency of (A + B) = $1 + 3 = 4$

So, time taken by them = $60/4$ days

⇒ 15 days

∴ A and B complete a work in 15 days when working together.

Question 29

In India, where did Mahatma Gandhi launch his first Satyagraha?

Options:

A. Kheda

B. Bardoli

C. Champaran

D. Sabarmati

Answer: C

Solution:

The correct answer is Champaran.



Key Points

- The first Satyagraha movement led by Mahatma Gandhi was the **Champaran satyagraha**.
 - It was started in the **Champaran district of Bihar in 1917**.
 - This satyagraha was a **revolt against the British indigo policy**.
 - **Farmers were forced to grow the indigo crop and sell it at lower prices.**
 - Gandhiji arrived in Champaran on the request of **Pandit Raj Kumar Shukla**, one such oppressed Indigo cultivator.
 - Gandhiji was accompanied by
 - Babu Raj Kishore Prasad
 - Dr. Anurag Narayan Sinha
 - Dr. Rajendra Prasad
 - The word Satyagraha was used for the first time in **Anti Rowlatt Act agitation**.
-

Question 30

How many seats in Rajya Sabha are from Uttar Pradesh?

Options:

A. 62

B. 29

C. 40

D. 31

Answer: D

Solution:

The correct answer is **option 4** i.e **31**.



Key Points

- The first general election under the new constitution was held during the year **1951-52**, the first elected parliament with the two houses- the Rajya Sabha and the Lok Sabha came into being in 1952.
- Rajya Sabha is a **permanent house** and not subject to dissolution.
- The term of an individual member of Rajya Sabha is six years, one-third of its members retire at the expiration of every second year.
- The Vice-President, who is elected by the members of both the houses is the ex officio chairman of Rajya Sabha.
- **The number of representatives from each state in India largely depends on its population. Thus, while Uttar Pradesh has 31 seats and smaller states like Manipur, Mizoram has one member each.**
- Delhi & Puducherry are the only two Union Territories having Rajya Sabha Seats.

Number of seats in Rajya Sabha-

Maximum Numbers of Seats	Present seats	Elected Members	Nominated members
250	245	233	12

Question 31

What is the state animal of Rajasthan?

Options:

A.

Horse

B.

Camel

C.

Sheep

D.

Lion

Answer: B

Solution:

The correct answer is Camel.



Key Points

- **The state animal of Rajasthan is Camel.**
- **Camel** was adopted as the state animal of Rajasthan to control the decreasing number of camels in the state.
- It was adopted in **2014** by the Rajasthan state government.



Additional Information

- **State Bird:** Great Indian Bustard.
- **State Animal (Wildlife) - Chinkara**
- **State Flower:** Rohida.
- **Chinkara** is also the official animal of Rajasthan.
- **National Park:** Sariska National Park, Ranthambore National Park, Desert National Park, and Keoladeo Ghana National Park.
- **Geographical indication:** Kota Doria, Kathputlis, Blue pottery, Molela, clay work, Sanganeri Hand Block Printing, Phulkari, Bikaneri Bhujia, Bagru hand block print, Thewa artwork, Makrana marble.



Question 32

What is the full form of NITI?

Options:

- A. National Internal Trade Information
- B. National Institution for Transforming India
- C. National Integrated Treaty Institute
- D. National Intellectual Training Institute

Answer: B

Solution:

The correct answer is 'National Institution for Transforming India'.

Key Points

- In 2015, NITI Ayog replaced the old Planning commission of India.
 - Prime Minister is the chairperson of NITI Ayog and it has Regional and Governing Councils.
 - The composition of NITI Ayog has the following components-
 1. **Governing Council** - CMs and Lt Governors
 2. **Regional Councils**- Formed on a need basis
 3. **Members**- the full-time basis
 4. **Part-time** basis- Maximum 2
 5. **Ex Officio members**- Maximum 4 from Council of Ministers, nominated by PM.
 6. **Special Invitees**-Expert, specialists, practitioners with domain knowledge
 7. **Chief Executive Officer**- Appointed by PM for a fixed tenure
 8. **Secretariat**- as deemed necessary
-

Question 33

Who has won the Wimbledon men's singles title in July 2022?

Options:

- A. Rafael Nadal
- B. Dimitri Medvedev
- C. Roger Federer
- D. Novak Djokovic

Answer: D

Solution:

The correct answer is Novak Djokovic.



Key Points

- **Serbian star Novak Djokovic** on 10 July 2022 won Wimbledon 2022 men's singles title after defeating Australia's Nick Kyrgios by 4-6, 6-3, 6-4, 7-6 in London.
- It is Djokovic's **21st Grand Slam** title overall, **putting him one behind record-holder Rafael Nadal**.
- It was also Djokovic's seventh Wimbledon title.
- Djokovic has won the Wimbledon crown **for the fourth straight year**.



Important Points

- There are four Grand Slams in a year- Australian Open, French Open, Wimbledon and US Open.
 - Australian open is the first Grand Slam of a year.
 - **Australian and US Open** are played on **hard court**, **French Open** on **clay court** and **Wimbledon** on **grass court**.

Additional Information

- **Spaniard Rafael Nadal** on 5 June 2022 won the 14th singles title of the French open beating Casper Ruud of Norway 6-3, 6-3, 6-0 in the final.
 - With this victory, 36-year-old Nadal has become the oldest champion of the French Open.
 - It is his **22nd Grand Slam title**.
 - **Novak Djokovic of Serbia has become the first player** in the history of tennis to win 80 matches in all four Grand Slams.
 - He achieved this feat when he defeated Kwon Soon-woo of South Korea on day one of the Wimbledon tennis Championship 2022 in London on 27 June 2022.
 - Djokovic was playing for the first time since losing to **Rafael Nadal in the French Open quarterfinals in May 2022**.
-

Question 34

What is the name of the first Indian satellite?

Options:

- A. Rohini
- B. SLV-3
- C. Aryabhata
- D. Sputnik 1

Answer: C

Solution:

- **Aryabhata** was the first satellite launched by India.
 - It was launched on **April 19, 1975**, from Kapustin Yar.
 - Rohini became the first satellite to be placed in orbit by an Indian-made launch vehicle.
 - **Sputnik 1** was the world's first artificial satellite launched by the **Soviet Union**.
-

Question 35

In December 2021, who has become the third player in the world to take all 10 wickets in an innings of the cricket match?

Options:

A. Ravichandran Ashwin

B. Tim Southee

C. Ajaz Patel

D. Asif Ali

Answer: C

Solution:

The correct answer is Ajaz Patel.



Key Points

- Left-arm spinner **Ajaz Patel** on December 4, 2021, created history by taking all 10 wickets in an innings in the 2nd test match against India.
- He plays for New Zealand.
- He finished with figures of 10/119.
- He became the third bowler after **Jim Laker** and **Anil Kumble** to achieve the feat.
- Patel had made his Test debut against Pakistan in 2018 in Abu Dhabi.



Additional Information

- **Anil Kumble's** record had come against Pakistan in a Test match at **Delhi's Feroz Shah Kotla (Renamed Arun Jaitley Stadium)** in **1999**.
- **Ravichandran Ashwin** on 29 November 2021, went past Harbhajan Singh to become the third-highest wicket-taker for India in Test cricket, reaching the mark in his 80th match with 418 wickets.
- **Anil Kumble** tops the chart with 619 wickets and is followed by Kapil Dev, who has a total of 434 wickets under his name.
- **Shreyas Iyer** on 26 November 2021 became the 16th Indian batter to make a hundred on his Test debut.

Question 36

In a certain code language, BUT is written as DWV and LOW is written as NQY. How will CUP be written in that language?

Options:

A. RWE

B. EWR

C. UCP

D. PUC

Answer: B

Solution:

The positional values of English alphabet is as follows :

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

The pattern followed here is :

BUT is written as DWV

$$\begin{aligned}(2) \text{ B} &\xrightarrow{+2} \text{ D } 4 \\(21) \text{ U} &\xrightarrow{+2} \text{ W } 23 \\(20) \text{ T} &\xrightarrow{+2} \text{ V } 22\end{aligned}$$

LOW is written as NQY

$$\begin{aligned}(12) \text{ L} &\xrightarrow{+2} \text{ N } 14 \\(15) \text{ O} &\xrightarrow{+2} \text{ Q } 17 \\(23) \text{ W} &\xrightarrow{+2} \text{ Y } 25\end{aligned}$$

Similarly, CUP is written as:

$$\begin{aligned}(3) \text{ C} &\xrightarrow{+2} \text{ E } 5 \\(21) \text{ U} &\xrightarrow{+2} \text{ W } 23 \\(16) \text{ P} &\xrightarrow{+2} \text{ R } 18\end{aligned}$$

Hence, **EW R** is the correct answer.

Question 37

In a certain code language, CHALLENGE is written asXSZOOVMTV. How will ASPIRATION be written in that language?

Options:

A. ZKHRZIGMLR

B. ZHKRIZGRLM

C. ZHKRIZMLRG

D. ZHKRIZMRLG

Answer: B

Solution:

The table is alphabets place value:

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

CHALLENGE is written asXSZOOVMTV

C	H	A	L	L	E	N	G	E
3	8	1	12	12	5	14	7	5
Opposite	Opposite	Opposite	Opposite	Opposite	Opposite	Opposite	Opposite	Opposite
↓	↓	↓	↓	↓	↓	↓	↓	↓
X	S	Z	O	O	V	M	T	V
24	19	26	15	15	22	13	20	22

Similarly,

'ASPIRATION' = ?

A	S	P	I	R	A	T	I	O	N
1	19	16	9	18	1	20	9	15	14
Opposite ↓	Opposite ↓	Opposite ↓	Opposite ↓	Opposite ↓	Opposite ↓	Opposite ↓	Opposite ↓	Opposite ↓	Opposite ↓
Z	H	K	R	I	Z	G	R	L	M
26	8	11	18	9	26	7	18	12	13

Hence, 'ASPIRATION' is coded as "ZHKRIZGRLM".

Question 38

In the following questions, select the wrong figure from the given series.

T	R	L	&	Y	₹	R	%	&	\$
L	Y	Y	R	L	&	&	₹	₹	%

Options:

A.

T	R
L	Y

B.

Y	₹
L	&

C.

L	&
Y	R



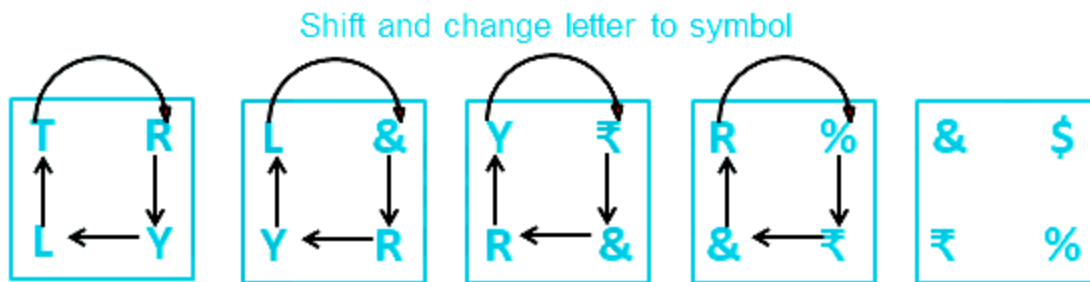
D.

Answer: B

Solution:

The Logic here is as follows:

- The letter shifted its position in the clockwise direction from corner to corner.
- The Upper left side letter shifted to the upper right side and changed from letter to symbol.

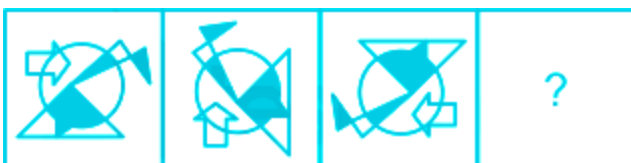


Therefore, the figure in the series is the wrong figure and should be replaced by

Hence, the correct answer is "Option 2".

Question 39

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



Options:



Answer: A

Solution:

The logic followed here is:

The image rotates anticlockwise direction.



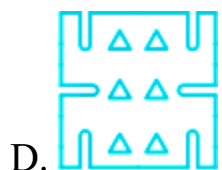
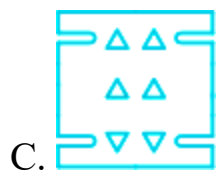
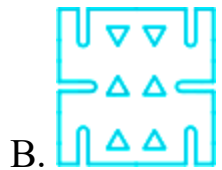
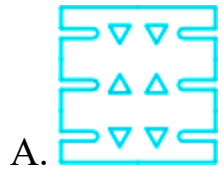
Hence, 'option 1' is the correct answer.

Question 40

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



Options:



Answer: A

Solution:

When the folder paper is opened, the cuts will appear as follows:



Hence,option 1is the correct answer.

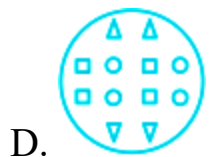
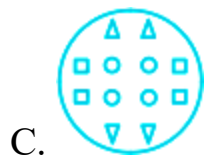
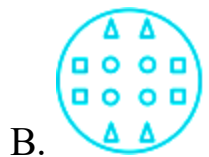
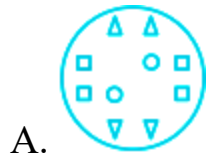
Question 41

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?



Options:



Answer: C

Solution:

According to given figure:

The figure will appear when it is opened as follows:



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

Question 42

Select the figure from the options that can replace the question mark (?) and complete the pattern.



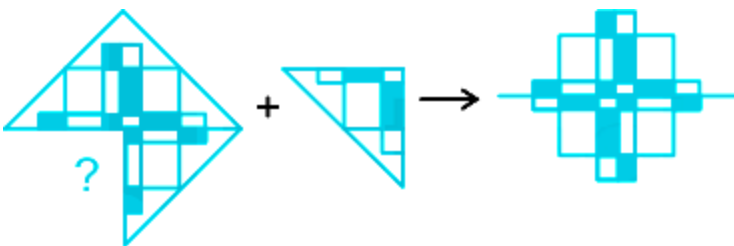
Options:



Answer: A

Solution:

The figure that will replace the question mark (?) in the following figure series is shown below:



Hence, 'option 1' is the correct answer.

Question 43

Rama ranks 16th from the top and 15th from the bottom in a certain examination. How many students are there in the class ?

Options:

A. 32

B. 33

C. 30

D. 31

Answer: C

Solution:

Rama ranks 16th from the top and 15th from the bottom in a certain examination.

Number of students in the class = Rank from the top + rank from the bottom - 1

Number of students in the class = $15 + 16 - 1$

$= 31 - 1$

$= 30$

Hence, '30' is the correct answer.

Question 44

If Seema is taller than Yash; Aisha is taller than Seema; and Yash is taller than Wasim, who is the tallest among all?

Options:

A. Seema

B. Yash

C. Aisha

D. Wasim

Answer: C

Solution:

The logic followed is:

i) Seema is taller than Yash

⇒ Seema > Yash

ii) Aisha is taller than Seema

⇒ Aisha > Seema

iii) Yash is taller than Wasim

⇒ Yash > Wasim

According to the above relations, we can say that

Aisha > Seema > Yash > Wasim

So, **Aisha** is the tallest among them all.

Hence, **Option (3)** is correct.

Question 45

Neeraj pointed at a photo of a lady and said, "She is the daughter of my paternal grandfather's only son. What is the relation of Neeraj with the lady in the photo?"

Options:

A. Father

B. Father-in-law

C. Uncle

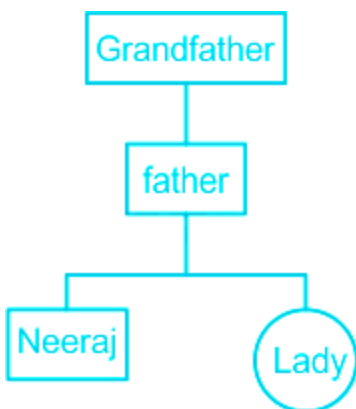
D. Brother

Answer: D

Solution:

By using the symbols in the table given below, we can draw the following family tree:

Symbol in Diagram	Meaning
○	Female
□	Male
==	Married Couple
—	Siblings
	Difference of a Generation



Clearly, Neeraj is the brother of the Lady in the photo.

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

Question 46

If $AT = 20$, $BAT = 40$, then CAT will be equal to

Options:

A. 30

B. 50

C. 60

D. 70

Answer: C

Solution:

$AT = 20$; $BAT = 40$

Let, $A = 1$, $B = 2$, $C = 3$, $Z = 26$

$A = 1$; $T = 20 \Rightarrow AT = 20 \times 1 = 20$

$B = 2$; $A = 1$; $T = 20 \Rightarrow BAT = 2 \times 1 \times 20 = 40$

Similarly, in $CAT = ?$

$C = 3$; $A = 1$; $T = 20 \Rightarrow CAT = 3 \times 1 \times 20 = 60$

Hence, CAT will be coded as “60”

Question 47

If thrice A's age 6 years ago is subtracted from twice his present age, the result is his present age. What is the present age of A?

Options:

A. 9 years

B. 11 years

C. 17 years

D. 18 years

Answer: A

Solution:

Let, the present age of A = xyear

Twice of A's present age = $2x$

$$2x - 3(x - 6) = x$$

$$2x - 3x + 18 = x$$

$$18 = x + x$$

$$2x = 18$$

$$x = 9$$

The present age of A is '9'.

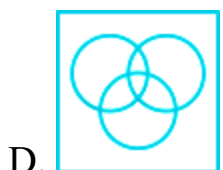
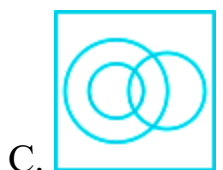
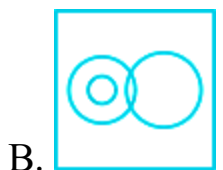
Hence, correct answer is '9'.

Question 48

Select the Venn diagram that best represents the relationship between the following set of classes.

Mother, Female, Doctor

Options:



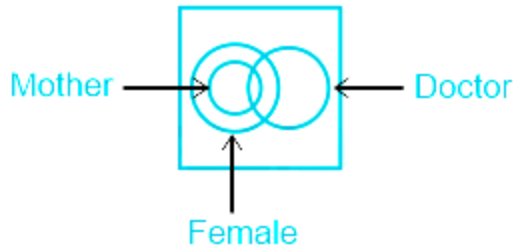
Answer: C

Solution:

According to the given information,

Mother, Female, Doctor

The possible Venn diagram is as follows :



As, all Mothers are Female but not all Females are Mother.

And, some Doctors can be Mothers as well as Females.

Hence, the correct answer is "**Option (3)**".

Question 49

Choose the correct alternative for the following:

8 : 27 :: 64 : ?

Options:

A. 216

B. 125

C. 25

D. 49

Answer: B

Solution:

The logic followed here is:

$8 : 27 :: 64 : ?$

$$(2)^3 = 8$$

$$(3)^3 = 27$$

$$(4)^3 = 64$$

Similarly,

$$(5)^3 = 125$$

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

Question 50

If P means "Addition", Q means "Multiply", R means "Divide", S means "Subtraction", then what will be the value of the following expression?

18 R 9 P 2 Q 8 S 4

Options:

A. 18

B. 16

C. 14

D. 20

Answer: C

Solution:

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	P	Q	R	S
Means	+	×	÷	-

Given:

18 R 9 P 2 Q 8 S 4

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

$$\Rightarrow \underline{18 \div 9} + 2 \times 8 - 4$$

$$\Rightarrow 2 + \underline{2 \times 8} - 4$$

$$\Rightarrow \underline{2 + 16} - 4$$

$$\Rightarrow \underline{18 - 4}$$

$$\Rightarrow 14$$

Hence, the correct answer is "14".
