

Airforce Group Y

4 November 2020

Memory Based

Paper

50 Questions

Que. 1 Select the segment of the sentence that contains a grammatical error. If there is no error, mark 'No error' as your answer.

Towns after towns (A)/ was (B)/devastated.(C) / No error (D)

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

Testbook Solution Correct Option - 1

The correct answer is **A**



Key-Points

- 'Town after town' should be there in place of 'Towns after towns'
- If a **preposition** comes after a **noun** and the same **noun is repeated**, the noun should be used in singular form.

Example: Rows upon rows of marble looks beautiful. (wrong)

Row upon row of marble looks beautiful. (right)



Additional Information

- In such cases when the same noun is used after a preposition, we always use 'singular verb' as it will act as a singular subject.

Example: Ship after ship are arriving. (wrong)

Ship after ship is arriving. (right)

Thus, the correct sentence is: *Town after town was devastated.*

Que. 2 **Direction:** In the following question, some parts of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.

He had no illusion of (A)/ being either a distinguished writer (B)/ or a editor. (C)/ No error (D)

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

Testbook Solution Correct Option - 3

The correct answer is **C**



Key-Points

- 'or an editor' should be there in place of 'or a editor'
- Since 'editor' is starting with a vowel sound 'an' should be used.



Important Point

- Indefinite article '**A**' is used before general, singular nouns that begin with a consonant sound. **Example:** *I saw a lion.*
- Indefinite article '**An**' is used before general, singular nouns that begin with a vowel sound. **Example:** *I saw an owl.*
- Definite article '**The**' is used before specific, known nouns, both singular and plural. **Example:** *The lions were sleeping.*



Additional Information

- '**either..or**', '**neither..nor**', '**not only...but also**' are the conjunctions that always occur in pair.
- When using a correlative conjunction, the words, phrases, or clauses following each part should be parallel.
Faulty parallelism: *It was both a long movie and poorly written.*
Correct parallelism: *The movie was both long and poorly written.*

Thus, the correct sentence is: *He had no illusion of being either a distinguished writer or **an** editor.*

Que. 3 Given below is a sentence. Find the part that contains an error. If there is 'No error', choose 'no error' as an answer.

My mother does not like me coming late at night.

- My mother
- does not like me coming
- late at night.
- No error

Testbook Solution Correct Option - 2

The correct answer is **does not like me coming**



Key-Points

- '**does not like my**' should be there in place of '**does not like me**'
- Possessive case of pronoun** (my, our, your, his, their) comes before **gerund**.
Example: I appreciate you taking the time to read our year-end report. (wrong)
I appreciate your taking the time to read our year-end report. (right)



Important Point

- I appreciate you taking time to talk with me about the project.
The possessive case of *you* is not used with the gerund *taking*, so the writer ends up making the illogical statement (at least in this context) "I appreciate you."
- The point is not that the writer of the sentence appreciates you, per se; instead, the writer appreciates the fact that you took time to discuss the project. Thus, the correct sentence should be:
I appreciate *your* taking time to talk with me about the project.

Thus, the correct sentence is: *My mother does not like my coming late at night.*

Que. 4 Fill in the blanks with appropriate words:

Do you want _____ you?

1. me to help
2. I to help
3. me to helping
4. None

Testbook Solution Correct Option - 1

The correct answer is me to help



Key-Points

- 'me to help' should be there
- To 'want' is to feel or have a desire for. When saying 'Do you want me to' you're asking someone if there is anything you can do for them or assist them with.
- After the verb, we need an object, so 'objective case of the pronoun' should be there. So 'me' should be there.



Important Point

- *Need, require*, and *want* can be **followed by** the active or passive **to-infinitives** to express active or passive meanings, respectively.

Example: *I wanted to stay for a few more days.*

It was obvious that he wanted to be invited.

- But active gerunds after these verbs express passive meanings:

Example: *The windows want cleaning.* (They should be cleaned.)

The complete sentence is: Do you want me to help you?

Que. 5 Fill in the blanks with appropriate word:

He was astonished _____ his failure.

1. at
2. of
3. from
4. to

Testbook Solution Correct Option - 1

The correct answer is at



Key-Points

- If something or someone **astonishes** you, they surprise you very much.
Example: *My news will astonish you.*
- '**at**' is used with adjectives to show the cause of something.
Example: They were impatient at the delay.
She was delighted at the result.
- '**of**' is used after some adjectives before mentioning somebody/something that a feeling relates to.
Example: to be proud of something
- '**from**' is used to show what the origin of somebody/something is.

- 'to' means to be directed towards; in connection with.
- Thus, 'at' is the most suitable option

Thus, the complete sentence is: *He was **astonished at** his failure.*

Que. 6 In the following question, a question is given in Direct speech. Out of the four alternatives, choose the one which best expresses the sentence in Indirect speech

Rahul said, "I will do it now or never."

1. Rahul said that I will do it now or never.
2. Rahul said that I would do it now or never.
3. Rahul said that he would do it then or never.
4. Rahul said if he would do it then or never.

Testbook Solution Correct Option - 3

The correct answer is Rahul said that he would do it then or never.



Key-Points

- While changing direct speech into indirect speech, 'said' is changed into 'told' when there is an object present after 'said'
 - Since there is no object present 'said' will remain as it is.
- The conjunction 'that' is used in place of commas and inverted commas.
- The first person 'I' will be changed into 'he' and modal 'will' will be changed into 'would'.
- Change of time is also shown while changing to indirect speech so, 'now' will be changed into 'then'.



Additional Information

CHANGE OF MODALS:

DIRECT SPEECH	INDIRECT SPEECH
Can	Could
Shall	Should
Will	Would
May	Might

CHANGE IN TIME AND PLACE:

DIRECT SPEECH	INDIRECT SPEECH
Today	That day
Tomorrow	The next day
Yesterday	The previous day/ the day before
Tonight	That night
Last	The previous
Here	There
This	That

These	Those
Ago	Before
Now	Then

Eventually, we will get the final sentence- *Rahul said that he would do it then or never.*

Que. 7 Choose the most appropriate answer and fill in the blanks.

The noun form of 'compel' is _____.

1. Compellable
2. Compulsion
3. Compulsive
4. Compelled

Testbook Solution Correct Option - 2

The correct answer is compulsion



Key-Points

- If a situation, a rule, or a person **compels** you to do something, they force you to do it.
 - **Compellable** is an **adjective** which means (of a witness) able to be made to attend court or give evidence.
 - **Compulsion** is a **noun** that means the action or state of forcing or being forced to do something; constraint.
Example: The payment was made under compulsion
 - **Compulsive** is an **adjective** that means resulting from or relating to an irresistible urge.
Example: compulsive eating
 - **Compelled** is the **past tense** and **past participle** form of 'compel'
- Thus, **Compulsion** is the correct answer.

Que. 8 Change the voice of the sentence given below.

People made him president.

1. He will become the president.
2. People will choose him president.
3. He was made president by the people.
4. He is made president.

Testbook Solution Correct Option - 3

The correct answer is He was made president by the people.



Key-Points

- An **assertive sentence** is changed into a **passive** form in the following manner:
 - Find the **subject (People)** and the **object (him)** of the sentence and **exchange** their places.
 - In passive 'him' is changed into 'he' (subjective case of pronoun)
 - Use preposition **by** before the agent (the people).
 - Use **helping verb** in the passive form according to the **tense** of the given sentence. (**Past Indefinite - was/were + V₃**)
- In the **present continuous/progressive** sentence following changes are made:

- **Active:** doer/agent + V₂ + Object

Passive: object + was/ were + V₃ + by + agent/doer (made remains same in V₂ and V₃ form)

- At last line up the remaining part.



Additional Information

TENSE	ACTIVE VOICE	PASSIVE VOICE
Simple present	Doer + V ¹ + object	Object + is/am/are + V ³ + by + doer
Present progressive	Doer + is/am/are + V--ing + object	Object + is/am/are + being + V ³ + by + doer
Present perfect	Doer + has/have + V ³ + object	Object + has/have + been + V ³ + by + doer
Simple past	Doer + V ² + object	Object + was/were + V ³ + by + doer
Past progressive	Doer + was/were + V--ing + object	Object + was/were + being + V ³ + by + doer
Past Perfect	Doer + had + V ³ + object	Object + had + been + V ³ + by + doer
Simple future	Doer + shall/will + V ¹ + object	Object + shall/will + be + V ³ + by + doer
Future progressive	Doer + shall/will + be + V ¹ --ing + object	Not possible
Future perfect	Doer + shall/will + have + V ³ + object	Object + shall/will + have + been + V ³ + by + doer
Modal present	Doer + modal + V ¹ + object	Object + modal + be + V ³ + by + doer
Modal progressive	Doer + modal + be + V ¹ --ing + object	Not possible
Modal perfect	Doer + modal + have + V ³ + object	Object + modal + have + been + V ³ + by + doer

Following these steps, we finally get - *He was made president by the people.*

Que. 9 In the following question, out of the four alternatives, select the one which is opposite in meaning of the given word.

Abrupt

1. Sudden
2. Ample
3. Expected
4. Exact

Testbook Solution Correct Option - 3

The correct answer is expected



Key-Points

- **Abrupt** refers to sudden and unexpected.
- The opposite of 'abrupt' would be 'expected'.
- **Ample** means enough or more than enough.
- **Exact** means precise.
- Therefore, the correct answer here is 'expected'.

Que. 10 In the following question, out of the four alternatives, choose the word which best expresses the meaning of the given word and click the button corresponding to it.

Compatible

1. Equal
2. Friendly
3. Agreeable
4. Quarrelsome

Testbook Solution Correct Option - 3

The correct answer is agreeable



Key-Points

- **Compatible** means agreeable.
- **The other words mean as follows:**
 - Friendly: affectionate
 - **Agreeable:** quite enjoyable and pleasurable; pleasant
 - Quarrelsome: given to or characterized by quarrelling; fighting
- Thus option 3 is the correct answer.

Que. 11 In the following question, out of the four alternatives, choose the alternative which best expresses the meaning of the idiom/Phrase.

At sea

1. To be completely confused.
2. To be on vacation
3. To have motion sickness
4. To feel the waves

Testbook Solution Correct Option - 1

The correct answer is to be completely confused



Key-Points

- **To be at sea**, means to be **utterly confused**, and in a state of disorder
- **Example:** I was at sea when they started discussing politics at the table.

Que. 12 In the following question, four words are given out of which one word is incorrectly spelt. Find the incorrectly spelt word.

1. Battalian
2. Sufficient
3. Tremendous
4. Vaccination

Testbook Solution Correct Option - 1

The correct answer is battalian



Key-Points

- The correct spelling is '**battalion**'
- A **battalion** is a large group of soldiers that consists of three or more companies.
Example: Anthony was ordered to return to his battalion.

- **Meaning of other words:**
 - **Sufficient:** If something is **sufficient for** a particular purpose, there is enough of it for the purpose.
 - **Tremendous:** You use **tremendous** to emphasize how strong a feeling or quality is, or how large an amount is.
 - **Vaccination:** the act of vaccinating
- Thus, battalion is wrongly spelt

Que. 13 Find the wrongly spelt word

1. Sanctity
2. Variety
3. Anxeity
4. Purity

Testbook Solution Correct Option - 3

The correct answer is Anxeity.



Key-Points

- 'Anxiety' is the correct spelling.
- **Anxiety** means a feeling of worry, nervousness, or unease about something with an uncertain outcome.
Example: *He felt a surge of **anxiety**.*
- **Meaning of other words are:**
 - **Sanctity:** the state or quality of being holy, sacred, or saintly
Example: The site of the tomb was a place of sanctity for the ancient Egyptians.
 - **Variety:** the quality or state of being different or diverse; the absence of uniformity or monotony
Example: It's the variety that makes my job so enjoyable.
 - **Purity:** freedom from adulteration or contamination
Example: The purity of our drinking water
- Thus, 'anxiety' is the correct spelling.

Que. 14 Choose the most appropriate word that can substitute the given group of words.

A group of ships

1. Bevy
2. Fleet
3. Suite
4. Army

Testbook Solution Correct Option - 2

The correct answer is Fleet.



Key-Points

All the options are **collective nouns**. Let us look into the meaning of the given words:

- **Bevy**-- a group of roe deer, quails, or larks.
- **Fleet**--a group of ships sailing together.
- **Suite**--a set of rooms designated for one person's or family's use.
- **Army**--an organized military force.

The most appropriate word that can substitute the given group of words 'A group of ships' is 'fleet'.

Que. 15 Out of the four alternatives, select the alternative which is the best substitute of the phrase.

A place where pigs are kept.

1. Cage
2. Sty
3. Hive
4. Mint

Testbook Solution Correct Option - 2

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



Let's look at the meaning of the marked option.

- **Sty:** A place where pigs are kept.

Hence from the meaning, we find that the correct answer is **Option 2 Sty**.



Let's look at the meanings of the other options.

- **Cage:** A place for birds.
- **Hive:** A place for bees.
- **Mint:** A place where the money is coined.

Que. 16 Direction- In the following question, parts of a sentence have been jumbled and labelled as P, Q, R, and S. You are required to rearrange the jumbled parts of the sentence and mark your response accordingly by selecting the correct option.

P: of fertility

Q: in the winter.

R: Evergreen trees are a symbol

S: because they do not die

1. PSRQ
2. RPSQ
3. SRPQ
4. QSRP

Testbook Solution Correct Option - 2

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



Key-Points

- **R** introduces the subject i.e. Evergreen trees. Hence, it will be the first part.
- **P** will follow as it is telling us what the evergreen trees symbolize.
- **S** will be the third sentence as it is starting with the conjunction 'because', which is joining the two clause **RP** and **SQ**.
- **Q** will be the last part of the sentence rearrangement as it concludes the sentence.
- Thus, the correct order will be **RPSQ**.



Additional Information

- **Because** is a **subordinating conjunction**, which means that it connects a **subordinate clause** to an **independent clause**.
 - For e.g.- Michael went to the forest **because** he loves walking among the trees.



Important Point

- A **subordinate clause**, also known as a **dependent clause**, is a clause that cannot stand alone as a complete sentence; it merely complements a sentence's main clause, thereby adding to the whole unit of meaning.
 - For e.g.- We can all go for ice cream if I can find my wallet.

(Here, 'If' is the subordinate conjunction and the underlined part is the subordinate clause.)

The correct sentence- *Evergreen trees are a symbol of fertility because they do not die in the winter.*

Que. 17 Read the following passage and answer the following questions:

"At a restaurant, a cockroach suddenly flew from somewhere and sat on a lady. She started screaming out of fear. With a panic-stricken face and trembling voice, she started jumping, with both her hands desperately trying to get rid of the cockroach. Her reaction was contagious, as everyone in her group also got panicky. The lady finally managed to push the cockroach away but ...it landed on another lady in the group. Now, it was the turn of the other lady in the group to continue the drama. The waiter rushed forward to their rescue.

In the relay of throwing, the cockroach next fell upon the waiter. The waiter stood firm, composed himself and observed the behavior of the cockroach on his shirt. When he was confident enough, he grabbed it with his fingers and threw it out of the restaurant. Sipping my coffee and watching the amusement, the antenna of my mind picked up a few thoughts and started wondering, was the cockroach responsible for their histrionic behavior?

If so, then why was the waiter not disturbed?

He handled it near to perfection, without any chaos. It is not the cockroach, but the inability of the ladies to handle the disturbance caused by the cockroach that disturbed the ladies. I realized that, it is not the shouting of my father or my boss or my wife that disturbs me, but it's my inability to handle the disturbances caused by their shouting that disturbs me. It's not the traffic jams on the road that disturbs me, but my inability to handle the disturbance caused by the traffic jam that disturbs me. More than the problem, it's my reaction to the problem that creates chaos in my life.

Why was the lady screaming?

1. Because the food she ordered was extremely hot
2. Because the waiter was looking horrible
3. Because she forgot to bring money for paying the bill
4. Because a cockroach suddenly flew from somewhere and sat on a lady.

Testbook Solution Correct Option - 4

the correct answer is **Because a cockroach suddenly flew from somewhere and sat on a lady.**



Key-Points

- **From the line given in the passage:** *At a restaurant, a cockroach suddenly flew from somewhere and sat on a lady. She started screaming out of fear. With a panic-stricken face and trembling voice, she started jumping, with both her hands desperately trying to get rid of the cockroach.*
- Thus, the lady got terrified on seeing the cockroach and started screaming

Que. 18 What is the synonym of the word 'histrionic'?

1. Ancient
2. Humorous
3. Melodramatic
4. Imaginary

Testbook Solution Correct Option - 3

The correct answer is melodramatic

Key-Points

- If you refer to someone's behaviour as **histrionic**, you are critical of it because it is very dramatic, exaggerated, and insincere.
Example: *She put on a **histrionic** display of grief at the funeral.*
- **Melodramatic** means showing much stronger emotions than are necessary or usual for a situation.
Example: *That might sound rather **melodramatic**, but that was what the cold war was about.*
- **Meaning of other words:**
 - **Ancient:** belonging to the very distant past and no longer in existence
 - **Humorous:** causing laughter and amusement; comic.
 - **Imaginary:** existing only in the imagination
- Thus, **melodramatic** is the synonym of '**histrionic**'

Que. 19 How did the waiter handle the situation?

1. He scolded the lady for disturbing the ambience
2. He informed the manager of the restaurant
3. He himself started screaming
4. He grabbed it and threw it out of the restaurant

Testbook Solution Correct Option - 4

The correct answer is He grabbed it and threw it out of the restaurant

Key-Points

- **From the lines given in the passage:** *The waiter stood firm, composed himself and observed the behavior of the cockroach on his shirt. When he was confident enough, **he grabbed it with his fingers and threw it out of the restaurant***
- Thus, the waiter confidently handled the situation.

Additional Information

- If you **grab** something, you take it or pick it up suddenly and roughly.
Example: *I managed to grab her hand.*

Que. 20 What is the lesson learnt from the story?

1. Responding is better than reacting
2. One should throw everything that scares another person
3. Decisions taken in haste are best
4. One should take impulsive decision

Testbook Solution Correct Option - 1

The correct answer is **responding is better than reacting**

Key-Points

- In the story, it has been mentioned that the lady reacted by screaming while the waiter took the action and threw the cockroach out of the restaurant.
- **From this we see: Reactions** are always taken in haste without paying much attention, while **responses** are always well thought of, just and right to save a situation from going out of hands, to avoid cracks in relationship, to avoid taking decisions in anger, anxiety, stress or hurry.
- Thus, acting is more important than reacting

Que. 21 Choose the correct figure which will replace the question mark?



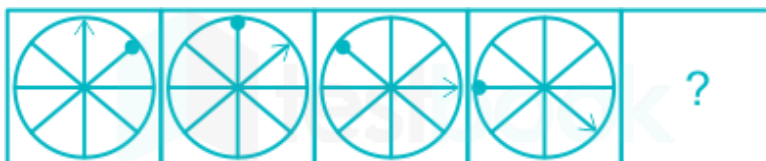
- 1.
- 2.
- 3.
- 4.

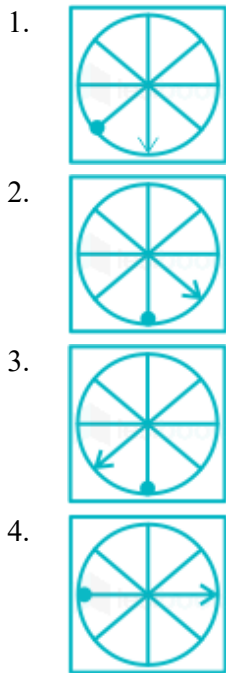
Testbook Solution Correct Option - 3

In each subsequent figure, one line segment is deleted and one circle is added.

Hence, option 3 will be the correct answer.

Que. 22 Choose the correct figure which will replace the question mark?





Testbook Solution Correct Option - 1

In each subsequent figure, the arrow moves one step in clockwise, and the dot moves one step in an anticlockwise direction.

Hence, option 1 is the correct answer.

Que. 23 Study the following pattern and select the figure that relates to the third figure in the same way that the second figure relates to the first figure:

Problem figures



Answer figures



A

B

C

D

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

Testbook Solution Correct Option - 3

DIAGRAM

In the given image first image changed to second image in anti-clockwise direction. Hence, third image changed with B's image which is in anti-clockwise direction.

Hence, Figure B is the correct answer.

Que. 24 Choose the correct figure which will replace the question mark?



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

Testbook Solution Correct Option - 3

In each subsequent figure, one curve is deleted and the shaded part moves two sectors in an anticlockwise direction. Hence, option 3 is the correct answer.

Que. 25 Select the answer figure that will come next in the given problem figure series.

Problem figures



Answer figures



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

Testbook Solution Correct Option - 4

In this diagram circle and triangle moves in clockwise direction within the box. So, after completing four step it would come at his initial stage.

Following images will be formed after next rotation.

DIAGRAM

Hence, figure D is the correct answer.

Que. 26 For a standard clock, what is the angle between hour hand and the minute hand when the clock shows 9:30 am?

1. 250°
2. 105°
3. 150°
4. 165°

Testbook Solution Correct Option - 2

The angle between hour hand and the minute hand when the clock shows 9:30 am can be calculated by using the following formula:

$$\text{Angle} = \frac{11}{2} \times M - 30 \times H$$

Where, M = Minutes and H = Hours

Here M = 30 and H = 9

$$\text{Therefore, we get angle} = \left| \frac{11}{2} \times 30 - 30 \times 9 \right| = |165 - 270| = |-105| = 105^\circ$$

Hence, 105° is the correct answer.

Que. 27 Select the term that relates to the third term in the same way that the second term relates to the first term.
3 : 24 :: 5 : ?

1. 125
2. 120
3. 127
4. 130

Testbook Solution Correct Option - 2

$$3: 24 \rightarrow (3)^3 - 3 = 27 - 3 = 24$$

Similarly,

$$5: ? \rightarrow (5)^3 - 5 = 125 - 5 = 120$$

Hence, "120" is the correct answer.

Que. 28 In a certain code language, CLOCK is written as LCOKC. How will BLACK be written as in that language?

1. CKABL
2. KCALB
3. LCAKB
4. LBAKC

Testbook Solution Correct Option - 4

C L O C K
L C O K C

Similarly,

B L A C K
L B A K C



Confusion Points

if we take second 'C' of word 'CLOCK' at second place in their code then there is no uniform pattern followed. Hence, "LBAKC" is the correct answer.

Que. 29 What day of the week was 2 October 1869?

1. Thursday
2. Friday
3. Saturday
4. Sunday

Testbook Solution Correct Option - 3

No. of Odd days	Simple year	Leap year
	$365 \div 7 = 52 \text{ weeks}$ + 1 odd day	$366 \div 7 = 52 \text{ weeks}$ + 2 odd day

Years	No. of odd days
100 years	5
200 years	3
300 years	1
400 years	0

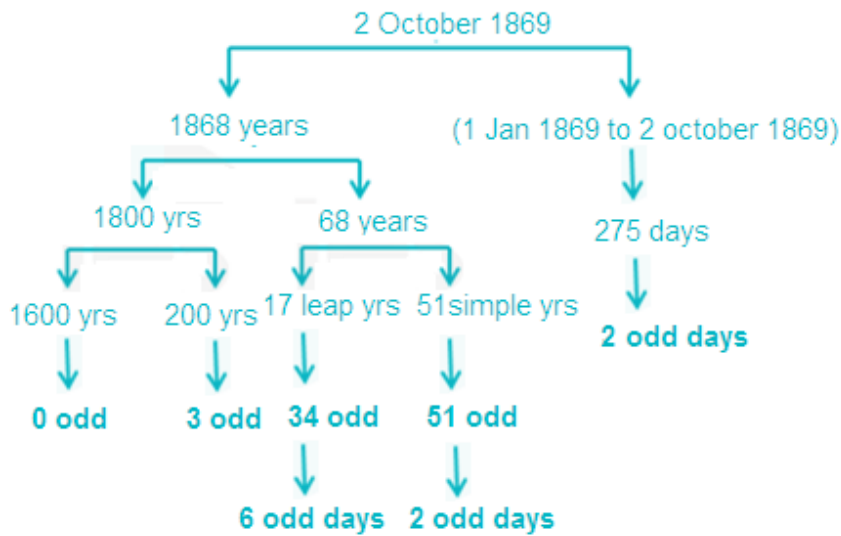
Note: Multiple of 400 years i.e. 800, 1200, 1600, 2000 have **0 odd days**.

Calculating leap year: For Finding number of leap year (1-99)yr, divide the number of years by 4 and the quotient will be the number of leap year.

Code for week days

Code for week days

No. of odd days	Day
0	Sunday
1	Monday
2	Tuesday
3	Wednesday
4	Thursday
5	Friday
6	Saturday



Total odd days = $0 + 3 + 6 + 2 + 2 = 13$ days = 1 week + 3 odd days

6 is the code for "Saturday"

Hence, "Saturday" is the correct answer.

Que. 30 Find the missing number in the given figure.

5	7	4	34
7	6	5	38
9	7	?	46
3	6	8	36

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

Testbook Solution Correct Option - 2

Logic: Add first three number multiply it by two and add 2 in resultant gives the fourth number of the row.

Row 1: $(5 + 7 + 4) \times 2 + 2 = 32 + 2 = 34$

Row 2: $(7 + 6 + 5) \times 2 + 2 = 36 + 2 = 38$

Row 4: $(3 + 6 + 8) \times 2 + 2 = 34 + 2 = 36$

Row 3: $(9 + 7 + ?) \times 2 + 2 = 46 \rightarrow (16 + ?) \times 2 = 44 \rightarrow ? = 22 - 16 = 6$

Hence, "6" is the answer.

Que. 31 **Direction:** Read the information given below and answer the question that follows.

Teacher, Student, Banker, Lawyer, Principal, Accountant, Engineer and Soldier are sitting around a circular table facing center.

Lawyer sits exactly between Accountant and Engineer. Teacher sits four places away from Accountant. Lawyer sits opposite to Soldier. Engineer sits second to the right of Accountant. Student does not sit adjacent to Accountant, Teacher and Lawyer. Banker sits three places away from Teacher.

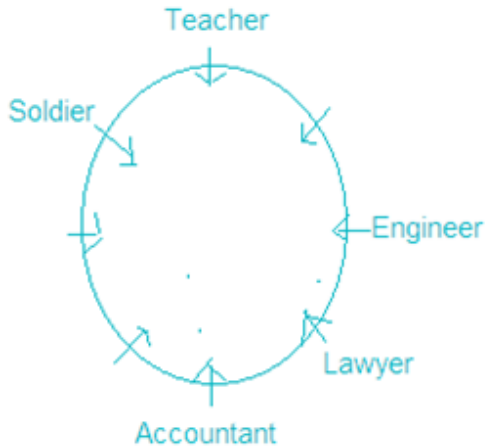
Who sits third to the right of Banker?

1. Teacher
2. Accountant

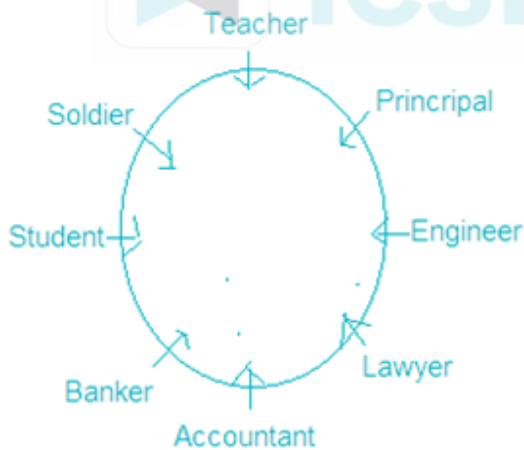
3. Principal
4. Engineer

Testbook Solution Correct Option - 4

- 1) Engineer sits second to the right of Accountant.
- 2) Lawyer sits exactly between Accountant and Engineer.
- 3) Teacher sits four places away from Accountant.
- 4) Lawyer sits opposite to Soldier.



- 5) Banker sits three places away from Teacher.
- 6) Student does not sit adjacent to Accountant, Teacher and Lawyer.



Hence, Engineer is third to the right of banker.

Que. 32 Find the wrong term in the given series:

2, 3, 6, 10, 18, 27

1. 10
2. 18
3. 6
4. 2

Testbook Solution Correct Option - 1

The logic is:



Hence, '10' is the wrong term in the given series.

Que. 33 Pointing to Kanchan, Rohit says, 'She is my brother's mother's daughter'. How is Kanchan related to Rohit?

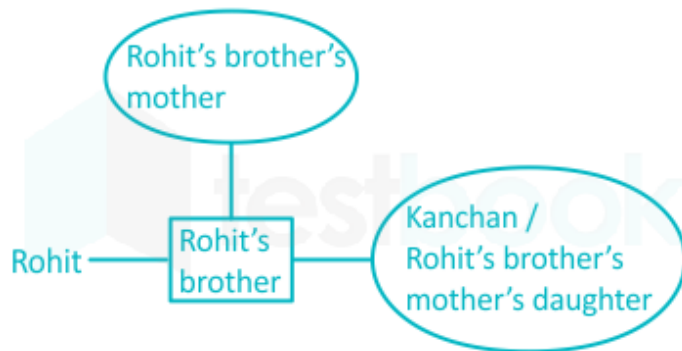
1. Mother
2. Sister
3. Daughter
4. Wife

Testbook Solution Correct Option - 2

Preparing the family tree using the following symbols:

Symbol in Diagram	Meaning
○	Female
□	Male
==	Married couple
—	Siblings
	Difference of a generation

Possible family tree diagram will be



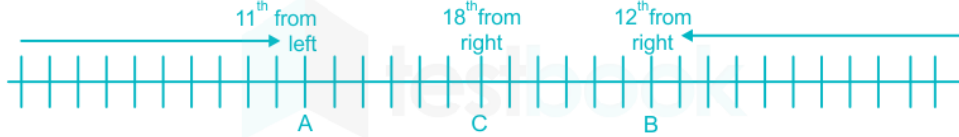
Hence, Kanchan is sister of Rohit.

Que. 34 In a row of people, the position of A from the left side is 11th and the position of B from the right side is 12th. C is sitting midway between B and A. Also, the position of C from the right of the row is 18th. Find the total no. of persons in the row.

1. 36
2. 34
3. 30
4. 33

Testbook Solution Correct Option - 2

Drawing the diagram according to the given information, Number of persons in the row = (position of A + position of C) + (persons between B and C) = $11 + 18 + 5 = 29 + 5 = 34$



There are 34 people in the row.

Hence, “34” is the correct answer.

Note: As C is midway between B and A, no. of people between A and C is same as the no. of people between B and C.

Que. 35

There are five friends -S, K, M, A and R. S is shorter than K but taller than R. M is the tallest.

A is a little shorter than K and little taller than S. Who has two persons taller and two persons shorter than him?

1. A
2. K
3. R
4. S

Testbook Solution Correct Option - 1

There are five friends -S, K, M, A and R.

1. S is shorter than K but taller than R.

$$K > S > R$$

2. M is the tallest.

$$M > _ > _ > _ > _$$

3. A is a little shorter than K and little taller than S.

$$K > A > S$$

Combining all the statements together, we get:

$$M > K > A > S > R$$

So, A has two persons taller and two persons shorter than him.

Hence, ‘A’ is the correct answer.

Que. 36

Find the value of $\cot 1^\circ \cdot \cot 2^\circ \cdot \cot 3^\circ \dots \cot 89^\circ$.

1. 0
2. 1
3. 2
4. $1/2$

Testbook Solution Correct Option - 2

Given

$$\cot 1^\circ \cdot \cot 2^\circ \cdot \cot 3^\circ \cdot \cot 4^\circ \dots \cot 89^\circ$$

Formula Used

$$\cot \theta = \tan(90^\circ - \theta)$$

$$\cot \theta = 1/\tan \theta$$

Calculation

$$\cot 1^\circ \cdot \cot 2^\circ \cdot \cot 3^\circ \dots \cot 44^\circ \cdot \cot 45^\circ \cdot \cot 46^\circ \dots \cot 87^\circ \cdot \cot 88^\circ \cdot \cot 89^\circ$$

$$\Rightarrow \cot 1^\circ \cdot \cot 2^\circ \cdot \cot 3^\circ \dots \cot 44^\circ \cdot \cot 45^\circ \cdot \tan 44^\circ \dots \tan 3^\circ \tan 2^\circ \cdot \tan 1^\circ$$

$$\Rightarrow \cot 1^\circ \cdot \cot 2^\circ \cdot \cot 3^\circ \dots \cot 44^\circ \cdot \cot 45^\circ \cdot 1/\cot 44^\circ \dots 1/\cot 3^\circ \cdot 1/\cot 2^\circ \cdot 1/\cot 1^\circ$$

$$\Rightarrow \cot 45^\circ$$

$$\Rightarrow 1$$

Que. 37 The average marks scored by boys in a class is 72. The average marks of class is 77 and there are total 40 students in the class. If number of girls in class is 25 then find the average marks of girls in class.

1. 78
2. 80
3. 82
4. 84

Testbook Solution Correct Option - 2

Given

Average marks of boys = 72

Average marks of 40 students = 77

Number of girls = 25

Formula Used

Average marks of class \times Total number of students = (Average marks of boys \times Number of boys) + (Average marks of girls \times Number of girls)

Calculation

Let average marks of girls be x.

Number of boys = Total students - Number of girls = 40 - 25 = 15

Now,

$$77 \times 40 = 72 \times 15 + x \times 25$$

$$\Rightarrow 3080 = 1080 + 25x$$

$$\Rightarrow 25x = 2000$$

$$\Rightarrow x = 80$$

Que. 38 Area of square is $\frac{3}{5}$ th of area of rectangle. If sides of rectangle are 9 cm and 15 cm, then find the perimeter of the square.

1. 9 cm
2. 18 cm
3. 36 cm
4. 81 cm

Testbook Solution Correct Option - 3

Given

Area of square = $\frac{3}{5}$ (Area of rectangle)

Sides of rectangle = 9 cm and 15 cm

Formula Used

Area of rectangle = Product of both sides

Area of square = Side²

Perimeter of square = 4 \times Side

Calculation

Area of square = $\frac{3}{5}$ (Area of Rectangle)

$$\Rightarrow \text{Side}^2 = \frac{3}{5} \times 9 \times 15$$

$$\Rightarrow \text{Side}^2 = 81$$

$$\Rightarrow \text{Side} = 9$$

$$\therefore \text{Perimeter of square} = 4 \times \text{Side} = 4 \times 9 = 36 \text{ cm.}$$

Que. 39 $(3.75^2 + 1.25^2 + 3.75 \times 2.5)/(3.75 + 1.25) = ?$

1. 2.5

2. 5

3. 25

4. 1

Testbook Solution Correct Option - 2

Given

$$(3.75^2 + 1.25^2 + 3.75 \times 2.5)/(3.75 + 1.25)$$

Formula Used

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

Calculation

$$(3.75^2 + 1.25^2 + 3.75 \times 2.5)/(3.75 + 1.25)$$

$$= (3.75^2 + 1.25^2 + 3.75 \times 2 \times 1.25)/(3.75 + 1.25)$$

$$= (3.75 + 1.25)^2/(3.75 + 1.25)$$

$$= 3.75 + 1.25$$

$$= 5$$

Que. 40 If $0.25x = 0.75y$, then find the value of $(x + y)/(x - y)$.

1. 0

2. 1

3. 2

4. 4

Testbook Solution Correct Option - 3

Given

$$0.25x = 0.75y$$

Calculation

$$0.25x = 0.75y$$

$$\Rightarrow x/y = 0.75/0.25$$

$$\Rightarrow x/y = 3/1$$

Now,

$$(x + y)/(x - y)$$

Dividing by y, we get

$$\Rightarrow (x/y + 1)/(x/y - 1)$$

$$\Rightarrow (3 + 1)/(3 - 1)$$

$$\Rightarrow 4/2$$

$$\Rightarrow 2$$

Que. 41 Change 5.6 into percentage form.

1. 56%
2. 560%
3. 0.056%
4. 0.56%

Testbook Solution Correct Option - 2

Given

Number = 5.6

Concept Used

$$x\% = x/100$$

So, 1/100 is equivalent to %.

Calculation:

$$\text{Let } 5.6 = x\%$$

$$x/100 = 5.6$$

$$= 5.6 \times 100$$

$$= 560$$

$$\therefore 5.6 \text{ is } 560\%$$

Que. 42 Find HCF and LCM of 28 & 42.

1. 84, 14
2. 14, 42
3. 14, 84
4. 42, 14

Testbook Solution Correct Option - 3

Given

Numbers = 28 & 42

Calculation

$$28 = 2 \times 2 \times 7$$

$$42 = 2 \times 3 \times 7$$

Hence,

$$\text{HCF} = 2 \times 7 = 14$$

$$\text{LCM} = 2 \times 7 \times 2 \times 3 = 84$$

Que. 43 5 kg honey contains 60% sugar. If 3 kg more sugar is added to it then find new sugar percentage.

1. 70%
2. 75%
3. 80%
4. 90%

Testbook Solution Correct Option - 2

Given:

initial quantity of honey = 5 kg

Initial percentage of sugar = 60%

Quantity of added sugar = 3 kg

Calculation:

Quantity of sugar = 60% of 5 = $5 \times (60/100) = 3$ kg

New sugar quantity = $3 + 3 = 6$ kg

New honey quantity = $5 + 3 = 8$ kg

Required percentage = $(6/8) \times 100 = 75\%$

\therefore The required percentage is 75%.

Que. 44 Who is known as the father of modern computer?

1. Charles Babbage
2. Howard Aiken
3. John Von Neumann
4. Alan Turing

Testbook Solution Correct Option - 4

Alan Turing is known as the father of modern computer. He invented the Turing machine which is responsible for the concept of algorithms and computations. He was born on June 23, 1912 in England

Que. 45 Which female athlete is nicknamed as 'Dhing Express' after her village's name?

1. Hima Das
2. Mary Kom
3. M R Poovamma
4. Sarita Gayakwad

Testbook Solution Correct Option - 1

Hima Das, Indian sprint runner from Dhing, Assam was nicknamed "**Dhing Express**". Currently she holds the Indian National Record for 400 metres with a timing of 50.79 seconds which she won in 2018 Asian Games in Jakarta, Indonesia.

Mangte Chungneijang Mary Kom is an Indian Olympic boxer from the state of Manipur. She is the only woman to become World Amateur Boxing champion for a record six times. She has been nicknamed '**Magnificent Mary**'.

Machettira Raju Poovamma is an Indian sprinter in the 400m race. She won gold medals at 2014 and 2018 Asian games. She received Arjuna Award 2015 for her contributions in the fields of athletics.

Saritaben Laxmanbhai Gayakwad is an Indian sprint athlete who specializes in 400 m sprint and 400m hurdles. She was part of the Indian women's 4×400 metres relay team that won the gold medal at the 2018 Asian Games.

Que. 46 Suez canal connects

1. Mediterranean Sea - Atlantic Ocean
2. Red Sea - Arab Sea
3. Mediterranean Sea - Red Sea
4. Mediterranean Sea - Arab Sea

Testbook Solution Correct Option - 3

The correct answer is the **Mediterranean Sea - Red Sea**.



Key-Points

- **The Suez Canal** is a man-made waterway which **connects the Mediterranean Sea through the Red Sea to the Indian Ocean**.

- It makes for a more direct shipping path between Europe and Asia, essentially facilitating the passage from the North Atlantic to the Indian Ocean without having to circumnavigate the continent of Africa.
- The waterway is crucial for international trade and, since **it began in 1869**, has been at the centre of controversy as a result.



Important Point

- **The Suez Canal extends 120 miles** southward from Port Said on the Mediterranean Sea in Egypt to the town of Suez (located on the northern shores of the Suez Gulf).
- The canal divides the majority of Egypt from the Peninsula of the Sinai.
- It took 10 years to build, and on **November 17, 1869**, it was officially opened.

Que. 47 When is the International Literacy Day celebrated?

1. 5 September
2. 6 September
3. 7 September
4. 8 September

Testbook Solution Correct Option - 4

The correct answer is **8 September**.

- **International Literacy Day** is celebrated every year on **8 September**.
- **International Literacy Day-2020** will focus on the theme '**Literacy teaching and learning in the COVID-19 crisis and beyond**', with a focus on the role of educators and changing pedagogies.
- This day was declared **International Literacy Day** by UNESCO on **26th October 1966** at the **14th Session of UNESCO's General Conference**.

Que. 48 Which of the following movie won the Oscar Awards 2020 for Best Picture?

1. Once Upon a Time in Hollywood
2. Joker
3. Judy
4. Parasite

Testbook Solution Correct Option - 4

The correct answer is **Parasite**.

- **Parasite** won the Oscar Awards 2020 for Best Picture.
- It is the first time that a South Korean movie has won the International Feature Film Category in the history of the Oscars.
- The director of the movie is **Bong Joon Hoo**, who also won the Oscar Award for Best Direction.
- The Oscar Award is famously known as Academy Awards. This was 92nd Academy Awards which was held in **Dolby Theatre, Los Angeles**.



Additional Information

Academy Award	Movie	Actor
Best Actor in supporting role	Once Upon A Time In Hollywood	Brad Pitt

Best Actor in Leading Role	Joker	Joaquin Phoenix
Best Actress in Leading Role	Judy	Renee Zellweger

Que. 49 Under which list the subject public health and sanitation comes ?

1. Union List
2. State List
3. Concurrent List
4. All of the above

Testbook Solution Correct Option - 2

The Correct Answer is State list

Under the Seventh Schedule, there are three lists – the Union, State and Concurrent.

- **The Union List:** It includes subjects under which the Parliament may make laws.
 - Example: **Defence**, foreign affairs, railways, etc.
- **The State List:** It includes subjects under which the state may make laws.
 - Public order, police, public health and sanitation; hospitals and dispensaries are few subjects that come under the state list.
- **The Concurrent List:** It includes subjects that give powers to both the Centre and state governments.
 - **Education**, prevention of cruelty to animals, **trade unions**, protection of wildlife and animals, **forests** etc. are the few subjects comes under this list.
 - However, whenever there is a conflict with the laws passed by Parliament and state legislatures on the same subject, the Constitution provides for a central law to override state law.

Que. 50 Which among the following is the national capital of Nepal?

1. Kathmandu
2. Patan
3. Janakpur
4. Biratpur

Testbook Solution Correct Option - 1

- Kathmandu is the national capital of Nepal.
- The official currency of Nepal is Nepalese Rupee.
- Khagda Prasad Oli is the current PM of Nepal whereas Bidhya Devi Bhandari is the current President of the country.

50 Questions

Que. 1	Correct Option - 1
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Que. 2	Correct Option - 3
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Que. 3	Correct Option - 2
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Que. 4	Correct Option - 1
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Que. 5	Correct Option - 1
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Que. 6	Correct Option - 3
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Que. 7	Correct Option - 2
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Que. 8	Correct Option - 3
--------	--------------------

Que. 9	Correct Option - 3
--------	--------------------

Que. 10	Correct Option - 3
---------	--------------------

Que. 11	Correct Option - 1
---------	--------------------

Que. 12	Correct Option - 1
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Que. 13	Correct Option - 3
---------	--------------------

Que. 14	Correct Option - 2
---------	--------------------

Que. 15	Correct Option - 2
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Que. 16	Correct Option - 2
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Que. 17	Correct Option - 4
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Que. 18	Correct Option - 3
---------	--------------------

Que. 19	Correct Option - 4
---------	--------------------

Que. 20	Correct Option - 1
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Que. 21	Correct Option - 3
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Que. 22	Correct Option - 1
---------	--------------------

Que. 23	Correct Option - 3
---------	--------------------

Que. 24	Correct Option - 3
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Que. 25	Correct Option - 4
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Que. 26	Correct Option - 2
Que. 27	Correct Option - 2
Que. 28	Correct Option - 4
Que. 29	Correct Option - 3
Que. 30	Correct Option - 2
Que. 31	Correct Option - 4
Que. 32	Correct Option - 1
Que. 33	Correct Option - 2
Que. 34	Correct Option - 2
Que. 35	Correct Option - 1
Que. 36	Correct Option - 2
Que. 37	Correct Option - 2
Que. 38	Correct Option - 3
Que. 39	Correct Option - 2
Que. 40	Correct Option - 3
Que. 41	Correct Option - 2
Que. 42	Correct Option - 3
Que. 43	Correct Option - 2
Que. 44	Correct Option - 4
Que. 45	Correct Option - 1
Que. 46	Correct Option - 3
Que. 47	Correct Option - 4
Que. 48	Correct Option - 4
Que. 49	Correct Option - 2
Que. 50	Correct Option - 1