



21-Days Study Plan

Day 9

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1. The Saturn rings were discovered by _____.

- A. Copernicus
- B. Newton
- C. Galileo
- D. None of these

Ans C

Sol.

- Italian scientist and scholar Galileo's pioneering observations laid the foundation for modern physics and astronomy.

- He also constructed a telescope and supported the Copernican theory, which supports a sun-centred solar system.

- **Galileo Galilei** was the first to observe the rings of Saturn in **1610** using his telescope, but was unable to identify them as such.

- In 1655, Christiaan Huygens was the first person to describe them as a disk surrounding Saturn.

2. Curie point is the temperature at which _____.

- A. Matter becomes radioactive
- B. A metal loses magnetic properties.
- C. A metal loses conductivity
- D. Transmutation of metal occurs

Ans B

Sol.

- Curie point is the temperature at which certain magnetic materials undergo a sharp change in their magnetic properties.

- **Curie temperature is the critical point at which a material's intrinsic magnetic moments change direction.**

- This temperature is named for the French physicist Pierre Curie, who in 1895 discovered the laws that relate some magnetic properties to change in temperature.

3. The side mirrors of vehicles are of which type of mirrors?

- A. Convex
- B. Concave
- C. Plane
- D. Inverted

Ans A

Sol.

- A convex mirror, diverging mirror, or fish eye mirror, is a curved mirror in which the reflective surface bulges toward the light source

- Convex mirrors reflect light outwards, therefore they are not used to focus light. Such mirrors always form a virtual image. The passenger-side mirror on a car is typically a convex mirror.

- Convex mirrors are preferred in vehicles because they give an upright, though diminished, image. Also, they provide a wider field of view as they are curved outwards.

4. The Governor has this opinion that if Anglo-Indian Community has not being adequately represented in the legislative assembly, then how many members can be nominated by him in the legislative assembly ?

- A. One member
- B. Two members
- C. Three members
- D. Four members

Ans A

Sol.

- Article 171 states that the States where Legislative Councils exists , The Governor can nominate some members from amongst those distinguished in literature, science, art, cooperative movements and social service.

- If Governor's opinion is that the Anglo-Indian community is not adequately represented in the Legislative Assembly , then **he/she can nominate one member.**

5. Which of the following is NOT a water borne disease?

- A. Typhoid
- B. Mumps
- C. Hepatitis
- D. Cholera

Ans B

Sol.

- **Waterborne diseases** are conditions caused by pathogenic micro-organisms that are transmitted in water.

- Contaminated water can cause many types of diarrheal diseases, including **Cholera, and other serious illnesses such as Guinea worm disease, Typhoid, and Dysentery.**

6. Mendelian disorder is related to _____.

- A. Sex linked recessive disease
- B. Alteration on mutation in single gene



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- C. Abnormal arrangement of chromosomes
- D. None of the above

Ans B

Sol.

Mendelian disorder is a type of genetic disease. It is caused by alteration on mutation in the single disease. It may be dominant or recessive. The pattern of inheritance can be traced by pedigree analysis. Some of the examples are haemophilia, Thalassaemia, Sickle cell anaemia etc.

7. Choose the most appropriate option to change the voice (active/passive) form of the given sentence.

Have you finished the assignment?

- A. Has the assignment been finish by you?
- B. Has been the assignment finished by you?
- C. Has the assignment been finished by you?
- D. Have the assignment been finished by you?

Ans C

Sol.

The given sentence is of present perfect tense and it is in active interrogative form. The structures for active/passive voices are:

Active: Has/have + subject + verb (IIIrd form) + object...

Passive: Has/have + object + been + verb (IIIrd form) + by + subject...

So, the passive voice of the given sentence would be: Has the assignment been finished by you?

Hence, option C is the correct answer.

8. Choose the most appropriate option to change the voice (active/passive) form of the given sentence.

I don't like people telling me what to do.

- A. I don't like being told what to do.
- B. People telling me what to do is not liked by me.
- C. I do not like being told by the people.
- D. People don't like telling me what to do.

Ans A

Sol.

In sentences, where the subject does not work but is worked upon by someone, the passive voice is made following the below structures:

Active: Subject + Is/Are/Am/Was/Were/Has/Have/Had + To + Verb (Ist form) + Object..

Passive: Object + Is/Are/Am/Was/Were/Has/Have/Had + To + Be + Verb (3rd form) + By + Subject...

For the given sentence the latter part of the sentence, "people telling me" is in continuous form, so we'll use "being + verb (IIIrd form) in passive voice.

The passive voice of the given sentence would be:

I don't like being told what to do.

9. Choose the most appropriate option to change the voice (active/passive) form of the given sentence.

He has written a poem which fascinates every one.

- A. A poem has been written by him which fascinates every one.
- B. Every one is fascinated by the poem which has been written by him.
- C. Poem written by him fascinates every one.
- D. Every one fascinates the poem which is written by him.

Ans B

Sol. The given sentence has two parts:

1. He has written a poem
2. which fascinates every one

The first sentence is of present perfect tense. The structures for active/passive voices for such sentences are:

Active: Subject + has/have + verb (IIIrd form) + object...

Passive: Object + has/have + been + verb (IIIrd form) + by + subject...

So, the passive voice of the first part would be:

A poem has been written by him

The second part of the sentence is of simple past.

The structures for active/passive voices are:

Active: Subject + verb ("s" or "es" with singular noun) + object...



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Passive: Object + Is/are/am + verb (IIIrd form) + by + subject...

So, based on the above structures, we can convert the given sentence into passive voice:

Every one is fascinated by...

When we combine the passive voices, the complete sentence would be:

Every one is fascinated by the poem which has been written by him.

10. Choose the most appropriate option to change the voice (active/passive) form of the given sentence.

Everyone must read this book.

A. This book should be read by everyone.

B. This book has to be read by everyone.

C. This book is to be read by everyone.

D. This book must be read by everyone.

Ans D

Sol. The given sentence is of active voice and it uses a modal verb. The structures for active/passive voices for modal verbs are:

Active: Subject + modal verb + verb (Ist form) + object...

Passive: Object + modal verb + be + verb (IIIrd form) + by + subject...

So, with the help of the above structures, we can convert the given sentence into passive voice:

This book must be read by everyone.

11. Choose the most appropriate option to change the voice (active/passive) form of the given sentence.

Who gave you ice-cream?

A. Who has given you ice-cream?

B. By whom were you given ice-cream?

C. By whom was you given ice-cream?

D. Who had given you ice-cream?

Ans B

Sol. For simple past sentences that start with "who", the following structures are followed for active/passive voice:

Active: Who + verb (IIInd form) + object...?

Passive: By whom + was/were + object + verb (IIIrd form)?

So, the passive sentence would be:

By whom were you given ice-cream?

12. Choose the most appropriate option to change the voice (active/passive) form of the given sentence.

I cannot draw this picture.

A. This picture cannot be drawn by me.

B. This picture cannot be drawn by I.

C. This picture could not be drawn By me.

D. This picture could not be drawn by I.

Ans A

Sol.

The given sentence is of active voice and it uses a modal verb "can". The structures for active/passive voices are:

Active: Subject + modal verb + verb (Ist form) + object...

Passive: Object + modal verb + be + verb (IIInd form) + by + subject...

So, with the help of the above structures, we can convert the given sentence into passive voice:

This picture cannot be drawn by me.

13. There are some statements and conclusions given below. Consider the statements correct despite they are different from known general facts?

Statements:

1. No country in the world has gained self-reliance.

2. Mechanization is failed completely.

Conclusions:

I. Becoming self-reliant is impossible.

II. Human labor is more productive in comparison to the machine.

Decide which of the following conclusion Follows :

A. Both I and II follows

B. None follows

C. Only conclusion II follows

D. Only conclusion I follows

Ans B

Sol. It is mentioned in the given statement that No country in the world has gained self-reliance but this doesn't mean that become self-reliant is impossible thus conclusion I is not implicit. It cannot be concluded that human labor is more productive in comparison to the machine just because Mechanization is failed completely thus conclusion II is not implicit. So, none follows.

Hence, option C is correct.



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14. There are some statements and conclusions given below. Consider the statements correct despite they are different from known general facts?

Statements :

1. Tea is green. Coffee is brown and milk is white.
2. More than half of the people in a city like tea.
3. Those people like white, do not like green and some people who like brown, do not like white.

Conclusions :

- I. Green is more popular in the city
- II. There is at least one person who takes coffee but do not take tea.

Decide which of the following conclusion Follows :

- A. Both conclusion I and II follows
- B. Neither I nor II follows
- C. Only conclusion II follows
- D. Only conclusion I follows

Ans D

Sol.

More than half of the people in a city like tea and tea is green that means green is more popular in the city can be concluded thus conclusion I is implicit. However, conclusion II doesn't implicit because it cannot be concluded. So, only conclusion I follow.

Hence, option D is correct.

15. In the following question, some statements followed by some Courses of action. Taking the given statements to be true even if they seem to be at variance from commonly known facts, read all the courses of action and then decide which of the given courses of action logically follows the given statements.

Statement: During the Monsoon season of this year, heavy rainfall is predicted by the IMD(Indian Meteorological Department) in various parts of the country.

Course of action:

- I. The disaster Management department of our country should prepare an execution plan to protect the maximum area and more importantly maximum

lives that will be affected during Moonsoon.

II. Public awareness programs on how to respond during a calamity should be started and maximum people should be informed and educated.

- A. Only I follows
- B. Only II follows
- C. Both I and II follow
- D. Neither I nor II follow

Ans C

Sol.

As stated this year a heavy rainfall is expected and from these heavy floods can also be anticipated and due to this a huge damage to the property and people is natural therefore the relief program and awareness campaign is the correct course of action.

Hence, the correct option is C.

16. Study the given information & answer the following questions

Following are the criteria to take an actor in a Bollywood movie:

- 1) Actor must have 6 feet height.
- 2) Actor must look like as Amitabh Bachchan.
- 3) Actor must charge less than 7 Crores.
- 4) Actor must know Bhojpuri language.

Which among the following will get selected for the movie?

- A. Pawan looks like as Salman Khan, he has height of six feet, knows to speak Bhojpuri language and charges 6 Crores.
- B. Dinesh looks like as Amitabh Bachchan, he has height of 5 feet, knows to speak Bhojpuri language and charges 5.5 Crores.
- C. Khesari looks like as Amitabh Bachchan, he has height of six feet, knows to speak Bhojpuri language and charges 8 Crores.
- D. Manoj looks like as Amitabh Bachchan, he has height of six feet, knows to speak Bhojpuri language and charges 4.9 Crores.

Ans D

Sol.

By going through the options- Option(a) Pawan will not be selected as he looks like as Salman Khan.



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Option(b) Dinesh will not be selected as his height is of just 5 feet.
 Option(c) Kheshari will not be selected as he charges 8 Crores.
 Option(d) Manoj will be selected as he fulfills all four criteria.

17. In making decisions about important questions, it is desirable to be able to distinguish between strong and weak arguments. Strong arguments are those, which are both important and directly related to the question. Weak arguments are those, which are of minor importance and also may not be directly related to the question or may be related to a trivial aspect of the question. The question below is followed by two arguments numbered I and II. You have to decide things are only possible if the viewers watch these movies. The best means to attract viewers is through promotions where the movies are officially introduced allowing the viewers to analyze whether a particular movie is worth meeting their expectations. Hence, argument A strongly justifies the given statement. Argument B which talks about the wastage of money through promotions is quite weak because promotions are investments so that the gain at the end can be better. It is no way can it be considered as 'only' wastage of money. Hence, option A is the correct answer.

18. If the ages of A and C are added to twice the age of B, the total becomes 59. If the ages of B and C are added to thrice the age of A, the total becomes 68 and if the age of A is added to thrice the age of B and thrice and age of C, the total becomes 108. What is the age of A?

- A. 18 years B. 15 years
 C. 12 years D. 20 years

Ans C

Sol. A.T.Q.:

$$A + C + 2B = 59, 3A + B + C = 68 \text{ and } A + 3B + 3C = 108$$

$$\Rightarrow B + C = 68 - 3A \text{ and } A + 3(B + C) = 108$$

Putting value of (B+C):

$$\Rightarrow A + 3(68 - 3A) = 108$$

$$\Rightarrow 8A = 204 - 108$$

which of the arguments a Strong argument is and which a weak argument is.

Statement:

Should a lot of money be spent on promoting movies?

Arguments:

A) Yes. It is an essential component of attracting more audience.

B) No. it only leads to wastage of resources.

- A. Only A B. Only B
 C. Either A or B D. Neither A or B

Ans A

Sol.

The benefit of producing a movie lies in the fact that the film earns money along with creative appreciation. These two

$$\Rightarrow A = 96/8 = 12 \text{ years}$$

19. If 1/2 of tank hold 120 liters of water, then the quantity of water that 1/3 of tank holds is:

- A. 80 liters B. 40 liters
 C. 100 liters D. 90 liters

Ans A

Sol. 1/2 of tank capacity = 120 liters

Tank capacity = 240 litres

$$1/3 \text{ of tank Capacity} = (1/3) * 240 = 80 \text{ litres}$$

20. After deducting 12% from a certain sum and then deducting 25% from the remainder, 2508 is left, then what is the initial sum?

- A. 3500 B. 3450
 C. 3970 D. 3800

Ans D

Sol. Let the initial sum be x.

$$\text{sum after deducting } 12\% = x - 12\%x = 88\% \text{ of } x$$

$$\text{sum after deducting } 25\% \text{ from remainder} = 88\% \text{ of } x - 25\% \text{ of } 88\% \text{ of } x = 75\% \text{ of } 88\% \text{ of } x$$

$$\Rightarrow \frac{75}{100} \times \frac{88}{100} \times x = 2508$$

$$\Rightarrow x = 3800$$

Initial sum = Rs.3800

21. In what ratio a retailer should mix two varieties of sugar costing Rs. 30/kg and



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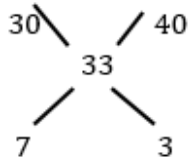
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Rs. 40/kg respectively so as to get a mixture worth of Rs. 33/kg?

- A. 4:5
- B. 5:8
- C. 7:9
- D. 7:3
- E. 5:3

Ans D

Sol. \Rightarrow According to the condition given in the problem,



\Rightarrow Required ratio = 7:3

22. The product of two numbers is 2028 and their H.C.F is 13. The numbers of such pair is:

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

Ans B

Sol. Let the numbers be $13a$ and $13b$.

Then, $13a \times 13b = 2028$

$ab = 2028/169 = 12$

Now, the co-primes with product 12 are (1, 12) and (3, 4).

So, the required numbers are ($13 \times 1, 13 \times 12$) and ($13 \times 3, 13 \times 4$).

Clearly, there are 2 such pairs.

Hence, option B is correct.



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