



# 21-Days Study Plan

## Day 10



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1. Which of the following was published by Gandhiji during his stay in South Africa?

- A. Young India
- B. Indian Opinion
- C. Nav Jivan
- D. None of these

Ans. B

Sol.

• **The Indian Opinion was a newspaper established by Mahatma Gandhi in South Africa.**

• The publication was an important tool for the political movement led by Gandhi and the Indian National Congress to fight racial discrimination and win civil rights for the Indian immigrant community in South Africa. It existed between 1903 and 1915.

• Young India was a weekly paper in English published by Mahatma Gandhi from 1919 to 1931 after his return to India. While Nav Jivan was a paper published in Gujarati.

2. Who was the first American to win Nobel peace prize?

- A. Abraham Lincoln
- B. George Bush Sr
- C. Theodore Roosevelt
- D. Franklin Roosevelt

Ans. C

Sol.

• **Theodore Roosevelt was the first American to win a Nobel in Peace category.**

• He received the award for the role he played in the Treaty of Portsmouth which brought the Russo-Japanese War to an end.

3. Which of the following viruses causes common cold?

- A. Rhino virus
- B. T4 virus
- C. HIV virus
- D. Variola Virus

Ans. A

Sol.

• **Common Cold is caused by Rhinovirus.**

• It is a common viral infection of the nose and throat. It is transmitted by virus-infected airborne droplets or by direct contact with infected secretions.

4. Measles is a disease caused by\_\_\_\_\_.

- A. bacteria
- B. virus
- C. protozoa
- D. worm

Ans. B

Sol.

Measles is a highly contagious viral disease. It remains an important cause of death among young children globally, despite the availability of a safe and effective vaccine. Measles is transmitted via droplets from the nose, mouth or throat of infected persons. Initial symptoms, which usually appear 10–12 days after infection, include high fever, a runny nose, bloodshot eyes, and tiny white spots on the inside of the mouth. Several days later, a rash develops, starting on the face and upper neck and gradually spreading downwards.

5. Glomerular Filtration Rate (GFR) is concerned with:

- A. Lungs
- B. Kidney
- C. Heart
- D. Liver

Ans. B

Sol.

Glomerular Filtration Rate (GFR) refers to the flow rate of filtered fluid through Kidney. Glomerulus is a cluster of capillaries around the end of a kidney tubule. The first step in urine formation is the filtration of blood, which is carried out by the glomerulus and is called glomerular filtration. On an average, 1100-1200 ml of blood is filtered by the kidneys per minute which constitute roughly 1/5th of the blood pumped out by each ventricle of the heart in a minute.

6. The excess use of ethyl alcohol damages which of the following human organ ?

- A. Kidney
- B. Liver
- C. Heart
- D. Intestine

Ans. B

Sol.

Liver is responsible for the metabolism of alcohol which is absorbed by blood. That is why excess use of ethyl alcohol will damage the liver.



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7. \_\_\_\_\_ is an inherited blood disorder due to which people suffering from this condition are unable to make haemoglobin.

- A. Stroke
- B. Thalassemia
- C. Thrombosis
- D. Bone Marrow failure

Ans. B

Sol.

• **Thalassemia** is an inherited blood disorder due to which people suffering from this condition are unable to make **haemoglobin**.

• Haemoglobin disorders are inherited blood diseases that affect the quality or amount of haemoglobin and the capacity to carry oxygen around the body.

• The mutations associated with thalassemia are passed from parents to children.

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

Are you not revising your lessons?

- A. Are your lessons not be revised by you?
- B. Are your lessons not being revised by you?
- C. Are not your lessons revised by you?
- D. Are you not being revising your lessons?

Ans. B

Sol.

The sentence is in active voice and its tense is present continuous interrogative tense. The structures for active/passive for such sentences are:

Active: Is/are/am + Subject + verb (Ing) + object..?

Passive: Is/are/am + object + being + verb (IIIrd form) + by + subject..?

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

Are your lessons not being revised by you?

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

The doctor advised me to give up sweets.

A. I was advised to stay away from sweets by the doctor.

B. To give up sweets was advised to me by the doctor.

C. I was advised to give up sweets by the doctor.

D. I were advised to give up sweets by the doctor.

Ans. C

Sol.

The given sentence is in active form of simple past tense. The structures for active/passive voices are:

Active: Subject + verb (IInd form) + object...

Passive: Object + was/were + verb (IIIrd form) + by + subject...

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

I was advised to give up sweets by the doctor.

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

Who wrote it?

- A. By who will it be written?
- B. By whom was it written?
- C. By who might it be written?
- D. By who would it be written?

Ans. B

Sol. Basic rules to be followed for Active/Passive conversions are:

1. The object of the active verb becomes the subject of the passive verb.

2. The finite form of the verb is changed (to be+ past participle).

3. The subject of the active sentence becomes the object of the passive sentence (or is dropped).

4. Preposition "by" is used before object. For simple past sentences that start with "who", the following structures are followed for active/passive voice:

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

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

So, the passive sentence would be:

By whom was it written?



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

They fund schools for girls.

- A. School for girls was funded by them.
- B. School for girls will be funded by them.
- C. School for girls are funded by them.
- D. School for girls was being funded by them.

Ans. C

Sol. Basic rules to be followed for Active/Passive conversions are:

1. The object of the active verb becomes the subject of the passive verb.
2. The finite form of the verb is changed (to be+ past participle).
3. The subject of the active sentence becomes the object of the passive sentence (or is dropped).
4. Preposition "by" is used before object.

The given sentence is in active voice. It is simple form of present tense. The structures for active/passive voices are:

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

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:

School for girls are funded by them.

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

**Statement:** Should there be compulsory police verification before a person applies for passport?

**Arguments:**

A) No. This is a sheer intrusion into the privacy of an individual.

B) Yes. It is a very valuable document and it is necessary to ensure that it does not go into the wrong hands.

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

Ans. B

Sol.

Passports are significant official documents which act as identity proof. Additionally, they can be used to cross the boundary of the home country and it is possible that criminals escape the country. Thus, it is quite important for an individual to undergo a police verification process to possess a passport. If a delicate document like this goes into the wrong hands, a lot of law and order problems may arise. Thus, argument A which talks about intrusion into privacy is a matter of less concern than the matter of national security. So, B is the only strong argument in relation to the given statement.

Hence, the correct option is B.

13. **Statement:** Should the practice of transfer of sub- inspectors from police stations of one city to those of another be stopped?

**Arguments:**

A) No. Transfer of officers is a routine administrative matter and we must continue it.

B) Yes, it involves a lot of government expenditure and causes inconvenience to many in comparison to the benefits it yields.

- A. Only A
- B. Only B
- C. Either A or B
- D. Neither A nor B

Ans. D

Sol.

Argument A calls for continuing an official custom just for the sake of it. It does not give any other concrete reason for continuing the routine transfer of sub-inspectors or. It is not necessary that it is right to practice a 'routine administrative matter'. Statement B on the other hand, talks about transfers leading to a lot of government expenditure and causing inconvenience to many as compared to the benefits it yields. Now a government should continue or discontinue a practise



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on the basis of the output yielded. Certainly, if continuing a practice yields better outcome than discontinuing it, the practise should be continued. The concern, thus, should not be the expenditure, procedure or convenience of the people involved in the process. Hence, neither of the statements is strong enough to support the given statement.

Hence, the correct option is D.

14. **Statement:** Should government services be linked with academic degree and diploma?

**Arguments:**

A) No. A large number of people with meager academic qualifications will apply.

B) No. Importance of higher education will be diminished.

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

Ans. D

Sol.

The correct answer is option (D) neither A nor B.

If governmental services are linked with academic degree and diploma, people with meager academic qualifications will in fact not be able to apply. Hence, argument A does not hold.

If governmental services are linked with an academic degree and diploma, people will be motivated to pursue their education more, instead of the importance of higher education getting diminished as said by argument B. Hence, argument B does not hold.

15. Statement: A well known English proverb states that you will always attract more flies with honey than with vinegar.

Assumptions:

I. Flies are pests and can be attracted to their early demise with honey.

II. English proverbs may have double meanings.

A. Only assumption I is implicit.  
B. Only assumption II is implicit.  
C. Either assumption I or II is implicit.  
D. Neither assumption I nor II is implicit.

Ans. B

Sol.

Assumption (I) considers the flies to be pests and assumes that one needs to kill them by attracting them with honey. This might be vague assumption since the statement is a proverb. What is conveyed through a proverb does not necessarily carry the literal meaning but usually they are figurative in nature. So assumption I is not implicit. Since a proverb may have a hidden meaning and it can also be expressing some other point, assumption (II) is more implicit. Hence option 2 is the correct answer.

16. In the question, a statement is given, followed by two arguments, I and II. You have to consider the statement to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given arguments, if any, is a strong argument.

**Statement :**

Should rock shows be allowed to run till midnight at tourist places?

**Arguments :**

I. Yes, more tourists arrive due to rock shows. Tourism is good for local economy.

II. No, local traditions are harmed due to tourism.

A. if only argument I is strong.  
B. if only argument II is strong.  
C. if both I and II are strong.  
D. if neither I nor II is strong.

Ans. A

Sol. Since the 1<sup>st</sup> argument gives a valid reason as why rock shows should not be banned. Therefore, only 1<sup>st</sup> argument is strong. Argument II is invalid as tourism is not bad for local tradition.

Hence, the correct option is **A**.

17. The average weight of 25 students of a class is 50 kg. If the weight of the class teacher is included, the average is increased by 1 kg. The weight of the teacher is:

A. 76 kg                                      B. 77 kg  
C. 74 kg                                      D. 75 kg

Ans. A

Sol. Average weight of 25 students = 50 kg

Age of teacher =  $26 \times 51 - 25 \times 50$



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$$= 1326 - 1250$$

$$= 76 \text{ kg}$$

**Short Trick:**

**When a person joins the group-In case of increase in average**

• Age of new member = Previous average + (Increase in average × Number of members including new member)

**Age of Teacher : 50 + (1 × 26) = 76 kgs**

18. A retailer has a sale of Rs. 6843, Rs. 6742, Rs. 5690, Rs. 8690, Rs. 9430 for five consecutive months. How much sale he must have in the sixth month so that he gets an average sale of Rs. 7500?

- A. Rs. 7632
- B. Rs. 7432
- C. Rs. 7854
- D. Rs. 7562
- E. Rs. 7605

Ans. E

Sol. ⇒ Total sales for 5 months = Rs.(6843 + 6742 + 5690 + 8690 + 9430) = Rs. 37395

⇒ Required Sale = Rs. [(7500 × 6) - 37395]

⇒ = Rs. (45000 - 37395)

∴ Answer is Rs. 7605

19. A car manufacturing company sells two cars at Rs. 514536 each. It makes a profit of 30% in the sale of first car and a loss of 30% in the sale of the second car. What is its gain or loss percent?

- A. 8% loss
- B. 9% loss
- C. 6% gain
- D. none of the above

Ans. B

Sol. **Short Trick:**

In this question S.P. are same.

So there would be loss

$$= x\% \text{ of } x \text{ or } \frac{x^2}{100}$$

$$\text{Loss}\% = \frac{30 \times 30}{100} = 9\%$$

20. A rice trader buys 8 quintals of rice for Rs 3,600. 10% rice is lost in transportation. At what rate should he sell to earn 15% profit?

- A. Rs 352.1 per quintal
- B. Rs 517.5 per quintal
- C. Rs 575 per quintal
- D. Rs 582.3 per quintal

Ans. C

Sol. Total rice = 8 quintals

Lost rice = 10% of 8 quintals

Thus, remaining rice = 90% of 8

= 7.2 quintals

Given: CP of 8 quintals = Rs.3600

And SP of 8 quintal rice to earn a profit of 15% = 115% of 3600

= Rs.4140

Since, only 7.2 quintals rice are remaining to sell

∴ SP of rice = 4140/7.2

= Rs.575 per quintal

21. Length of two trains are 150 m and 210 m respectively. Their speeds are in the ratio 4 : 5 and they are moving in opposite direction. If they cross each other in 30 sec then what is difference between their speeds?

- A. 9.6 km/h
- B. 5 km/h
- C. 4.8 km/h
- D. None of these

Ans. C

Sol. Let speeds of trains be 4x and 5x respectively

According to question

$$9x * 30 = 210 + 150$$

$$9x = 360/30 = 12$$

$$x = 4/3 \text{ m/sec}$$

$$\therefore x = (4*18)/(3*5) = 4.8 \text{ km/hr}$$

Required difference = 5x - 4x = x = 4.8 km/h



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