



# Lockdown 2.0 Study Plan Day 7



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1. Which is the highest point in Vindhya range?

- A. Chandrashila Peak
- B. Kalumar peak
- C. Trisul
- D. Duphgarh Peak

Ans. B

Sol.

- The highest point of the Vindhya range is the **Sad-bhawna Shikhar**, which lies 2,467 feet (752 m) above the sea level.
- It is also known as the **Kalumar peak** or **Kalumbe peak**.

2. In which state of India is the harvest festival of 'Kailpodh' celebrated by an indigenous community?

- A. Odisha
- B. Madhya Pradesh
- C. Jharkhand
- D. Karnataka

Ans. D

Sol.

• **Karnataka is the harvest festival of 'Kailpodh'** celebrated by an indigenous community.

• Putthari is the harvest festival and Kailpodh the armory and weapon festival celebrated by Karnataka.

• In this festival they place their traditional weapons like guns, swords, knives, spears, bows, and arrows in the prayer room after carefully cleaning them.

3. Who advises the Governor on matters pertaining to the welfare and advancement of the Scheduled Tribes in the State?

- A. Chief Minister
- B. Chief Justice of High Court
- C. National Commission for Scheduled Castes
- D. Tribal Advisory Council

Ans. D

Sol.

• **Tribal Advisory Council (TAC)** advises the Governor on matters pertaining to the welfare and advancement of the Scheduled Tribes in the State.

To take care of the welfare of the scheduled tribes, a Tribal Advisory

Council is constituted in each State with a Scheduled Area.

This Tribal Advisory Council will be made of maximum 20 members out of which the three-fourth will be Scheduled Tribes MLAs in the State.

4. Poonam Yadav received Arjun Award in 2019, she belongs to which sports?

- A. Cricket
- B. Badminton
- C. Boxing
- D. Para Athlete

Ans. A

Sol.

**Poonam Yadav** belongs to Cricket.

• She made her debut in 2013 in T20 against Bangladesh.

• In October 2018, she was named in India's squad for the 2018 ICC Women's World Twenty20 tournament in the West Indies.

• She was awarded **Arjun Award** by President Ramnath Kovind on the occasion of National Sports Day that is 29 August, **2019**.

5. Who presented the first budget of Independent India?

- A. R.K. Shanmukham Chetty
- B. Morarji Desai
- C. Sarvepalli Radhakrishnan
- D. John Matthai

Ans. A

Sol.

• **R.K. Shanmukham Chetty** presented the first budget of Independent India.

• Morarji Desai presented the budget for maximum times (10) in India.

• Sarvepalli Radhakrishnan was the First Vice President and Second President of India.

6. Torricelli's law is related to?

- A. Electricity and Magnetism
- B. Fluid Mechanics
- C. Rotational Mechanics
- D. Astronomy and Space

Ans. B

Sol.

Torricelli's law is related to **Fluid Mechanics**.



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- It states the relationship between height of fluid (h) and velocity of fluid passing from a hole (v).

- Mathematically it states that-  $V = \sqrt{2gh}$ , where v is the speed of liquid, g denotes gravitational acceleration and h shows liquid's height.

- Note that this law states that velocity with which the fluid flows is equal to the velocity with which a freely falling body attains if it is falling from a height h.

7. Respiration is a \_\_\_\_\_ reaction.

- A. Exothermic
- B. Endothermic
- C. Adiabatic
- D. Both A and B

Ans. A

Sol.

- **Respiration is an exothermic reaction.**

- It is an exothermic reaction because in respiration oxidation of glucose takes place which produces heat energy.

- There are two types of respiration:

- a) Aerobic Reaction in which requires oxygen and releases lots of energy.

- b) Anaerobic Reaction in which does not require oxygen but releases much less energy per mole of starting material.

8. Anaerobic Respiration takes place in which part of the cell?

- A. Mitochondria
- B. Nucleus
- C. Endoplasmic Reticulum
- D. Cytoplasm

Ans. D

Sol.

- **Anaerobic respiration takes place in the fluid portion of the cytoplasm** whereas aerobic respiration takes place in the mitochondria.

- Anaerobic respiration is respiration in absence of Oxygen.

- In this process, other less-oxidizing substances than oxygen such as Sulphate ( $SO_4^{2-}$ ), Nitrate ( $NO_3^-$ ), Sulphur (S), or Fumarate are used.

- In human, Anaerobic respiration takes place during high intensity exercise due to low supply of oxygen. In this condition, **the waste product is lactic acid**, not

carbon dioxide and water. Blood flowing through the muscles removes the lactic acid.

9. The Carbon MonoOxide and haemoglobin combination forms \_\_\_\_\_.

- A. Faster than Oxygen and Haemoglobin
- B. Slower than Oxygen and Haemoglobin
- C. Equal to Oxygen and Haemoglobin
- D. Equal to Carbon Dioxide and Haemoglobin

Ans. A

Sol.

- **The Affinity of Carbon MonoOxide to react with Haemoglobin is approx. 230 times more than Oxygen Affinity.**

- Carbon monoxide with hemoglobin to form carboxyhemoglobin preventing the blood from carrying oxygen. This is the reason **Carbon monoxide is known as Silent Killer.**

- When carbon monoxide in the body increases, the oxygen saturation of haemoglobin decreases since haemoglobin will bind more readily to CO than to oxygen.

10. What is the study of ecosystem called?

- A. Ecology
- B. Biota
- C. Cryology
- D. Mycology

Ans. A

Sol.

- **The study of ecosystem is called as Ecology.**

- Ecology studies the interaction of biotic and abiotic components of environment.

- The word "ecology" was coined in 1866 by the German scientist Ernst Haeckel.

Other Options:

- **Biota** is the total complex of biotic communities of a particular area.

- **Mycology** is the branch of biology concerned with the study of fungi.

- **Cryology** is study of the study of snow and ice.

11. The dark reactions in Photosynthesis are also known as \_\_\_\_\_.

- A. Thylakoid Reactions



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- B. Calvin Cycle
- C. Thomas Process
- D. Chloroplast Reactions

Ans. B

Sol.

- The dark reaction also take place in Chloroplast but in stroma of the chloroplasts.

- **This is also known as the Calvin Cycle.**

- This is where plants make sugar molecules that they can use to make other essential components & use for energy.

12. Who coined the word "Biology"?

- A. Aristotle
- B. Lamark and Treviranus
- C. Darwin and Lamark
- D. Lamark and Theophrastus

Ans. B

Sol.

- The term biology is first coined by **Lamark and Treviranus.**

- The word itself appears in the title of Volume 3 of **Michael Christoph** Hanow's Philosophiae naturalis sive physicae dogmaticae: Geologia, biologia, phytologia generalis et dendrologia, published in **1766.**

- The most significant evolutionary theory before Darwin's was that of Jean-Baptiste Lamarck which was based on the inheritance of acquired characteristics.

13. **Select the most appropriate option to fill in the blank.**

"Malaria \_\_\_\_\_ is one of the top priorities of the government," said the Minister.

- A. eradication
- B. dismissal
- C. abolition
- D. exclusion

Ans. A

Sol.

"Eradication" means "the complete destruction of something" and this word is generally associated with global problems and Malaria is one of them. Therefore it should come with Malaria in the blank. Hence option A is correct.

14. **In the sentence identify the segment which contains the grammatical error.**

Only one copy of the book, running into 1200 pages, on GandhiJi's visit to the State of Andhra Pradesh, remain now.

- A. Remain now
- B. on Gandhiji's visit to the State
- C. Only one copy of the book
- D. running into 1200 pages

Ans. A

Sol.

The subject of the sentence is "one copy" is singular but a plural noun "remain" (option A) is used for it which is a violation of subject verb agreement. It should be replaced with singular "remains". Hence option A is correct.

15. Identify the best way to improve the underlined part of the given sentence. If there is no improvement required, select 'no improvement'.

The gas is being seeping out of the rocks.

- A. is seeping
- B. is seep
- C. was being seeping
- D. No improvement

Ans. A

Sol.

The correct tense to use is present continuous tense. The present continuous verb tense indicates that an action or condition is happening now, frequently, and may continue into the future. Hence, the phrase in quotes should be replaced with 'is seeping' to form a grammatically correct sentence.

Therefore, option A is the correct answer.

16. Identify the best way to improve the underlined part of the given sentence. If there is no improvement required, select 'no improvement'.

Some children are much more aggressive then others.

- A. aggressively than
- B. aggressive than
- C. aggressively then
- D. No improvement

Ans. B

Sol.

The phrase should be replaced with 'aggressive than' to form a grammatically



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correct sentence. 'Than' is used when you're talking about comparisons while 'then' is used when you're talking about something relating to time.

Hence, option B is the correct answer.

17. Rewrite the sentence in indirect speech.

Prabha said to Prabhu, "Prem was playing cards."

A. Prabha told Prabhu that Prem had been playing cards

B. Prabha told Prabhu that Prem has been playing cards

C. Prabha told Prabhu that Prem playing cards

D. Prabha told Prabhu that Prem plays cards

Ans. A

Sol.

The given sentence is in Direct Speech because it quotes actual words. Therefore, it must be changed into Indirect Speech.

We notice that the reporting verb is in the Past tense ('said'). Hence, a change will be made in the tense of the reported speech.

Also, the first person of the reported speech is changed according to the subject of reporting speech.

In the given question, 'was' is changed to 'had been'.

Therefore, the sentence in Indirect Speech will be option A i.e. Prabha told Prabhu that Prem had been playing cards.

18. The following sentence is divided into four parts (P, Q, R and S). Rearrange it in the proper sequence in order to make a meaningful sentence.

(P) This was called the abolitionist movement

(Q) To slavery began a movement to abolish

(R) Or end the practice

(S) In the late 1700s people who were opposed

A. PQRS

B. RSQP

C. RPQS

D. SQRP

Ans. D

Sol.

The sentence should begin with the segment S as it introduces the subject of the sentence. Out of the given options, only option D contains S as the starting segment, thereby, making it the correct answer.

19. Select the most appropriate meaning of the given idiom.

Learn the ropes

A. To do the gymnastics

B. To learn the tricks

C. To learn how to deceit

D. To learn how to make a rope

Ans. B

Sol. The idiom "learn the ropes" means to learn the tricks in order to do something well. Therefore, option B is the correct answer.

The story behind this phrase comes from nomads that did rope tricks and travelled throughout the country in order to make a living. Rope tricks weren't easy and one would have to know the nuances as well as practice it thoroughly so that the performance is flawless and without any accidents. The phrase hence stuck on for anything that a person could perfect by learning and practicing.

20. Select the correctly spelt word.

A. disorientation

B. disorientetion

C. dysorientation

D. disorienatation

Ans. A

Sol. Option A has the correctly spelt word. Disorientation means the condition of having lost one's sense of direction.

21. Select the word which means the same as the group of words given.

Emission of light or heat from a central point.

A. rays

B. refraction

C. reflection

D. radiation

Ans. D

Sol.

Rays are the lines in which light (and heat) may seem to stream from the sun



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or any luminous body, or pass through a small opening.

Refraction is the fact or phenomenon of light, radio waves, etc. being deflected in passing obliquely through the interface between one medium and another or through a medium of varying density.

Reflection is the throwing back by a body or surface of light, heat, or sound without absorbing it.

Radiation is the emission of energy as electromagnetic waves or as moving subatomic particles, especially high-energy particles which cause ionization.

22. In the following question, out of the four alternatives, select the word similar in meaning to the given word.

- Waif A. Vulture
- B. Wayward
- C. Homeless person
- D. Matured

Ans. C

Sol. The word "waif" means a homeless person especially a child. Therefore, option C is the correct answer.

Vulture means a greedy or predatory person.

Wayward means difficult to control or predict because of wilful or perverse behaviour.

23. Select the most appropriate meaning of the given idiom.

Live from hand to mouth

- A. Filthy rich people
- B. To be dependent on others
- C. To have enough money to live on and nothing extra
- D. Living in miserable conditions.

Ans. C

Sol. The idiom "live from hand to mouth" means a way of life in which you have hardly enough food or money to live on. The same meaning is expressed in option C.

Hence, option C is the correct answer.

24. Find the unit digit of the product of all the odd prime number.

- A. 6
- B. 5
- C. 0

D. can't determine

Ans. B

Sol.

The prime numbers are 3, 5, 7, 13, 17, 19, 23.... etc.

Now we know that if 5 is multiplied by any odd number it always gives the last digit 5. So the required unit digit will be 5.

25. What is the sum of all natural numbers between 100 and 400 which are divisible by 13?

- A. 5681
- B. 5334
- C. 5434
- D. 5761

Ans. A

Sol. First number divisible by 13 between 100 and 400 is 104 and last number is 390

$$390 = 104 + (n-1) \times 13$$

$$286 = (n-1) \times 13$$

$$n = 23$$

$$\text{sum} = \frac{23}{2} (104 + 390) = 5681$$

26.  $\Delta ABC$  is right angled at B. If  $m\angle A = 60^\circ$ , then what is the value of  $\sec C \cdot \sin A$ ?

- A.  $2/\sqrt{3}$
- B.  $\sqrt{3}/2$
- C.  $2/3$
- D. 1

Ans. D

$$\text{Sol. } \angle A = 60^\circ$$

$$\angle B = 90^\circ$$

we know that in any triangle  $\angle A + \angle B + \angle C = 180$

$$\angle C = 180 - 90 - 60 = 30^\circ$$

$$\sec C \cdot \sin A = \sec 30^\circ \sin 60^\circ$$

$$= \frac{2}{\sqrt{3}} \times \frac{\sqrt{3}}{2}$$

$$= 1$$

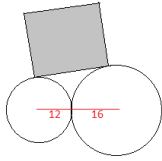
27. Two circles that touch each other externally at a point. They are having radius of 12 cm and 16 cm respectively. Find the area of the square whose side is equal to the length of direct common tangent between the circles.

- A.  $729.43 \text{ cm}^2$
- B.  $637.93 \text{ cm}^2$

C. 768.00  $cm^2$

D. 721.89  $cm^2$

Ans. C



Sol.

⇒ Let the radius of circle 1 be  $r_1$  and radius of circle 2 be  $r_2$ .

⇒ ∵ two circles touch each other externally, Sum of their radii will be equal to distance between their centers.

$$\Rightarrow r_1 + r_2 = 28$$

$$\Rightarrow r_1 - r_2 = 4$$

⇒ ∵ Side of the square can be calculated as = length of direct common tangent =

$$\sqrt{(distance\ between\ their\ centers)^2 - (r_2 - r_1)^2}$$

$$\Rightarrow \sqrt{(28)^2 - (4)^2}$$

$$\therefore Area\ of\ square = 28^2 - 4^2 = 784 - 16 = 768$$

28. Raman and Raghav run a 7.5 km race on a round course of 270 m . If their speeds are in the ratio 5:3 then find the number of times , the winner passes the other is :

- A. 8 times
- B. 9 times
- C. 10 times
- D. 11 times

Ans. D

Sol.

We know that When winner crosses the other then Distance between winner and other will be equal to circumference of the circular track .

Here Time is constant

Hence Ratio of Speed = Ratio of Distance

Speed Ratio = 5:3

Distance Ratio = 5:3

Difference of distance travelled by Raman and Raghav = 2 unit

At the instant of crossing: 2 unit = 270 m

1 unit = 135 m

At that time , Fast person travelled a distance of  $5 \times 135$  m

Hence number of times , the winner

$$\text{passes the other} = \frac{7500}{5 \times 135} = 11 \cdot 11 = 11 \text{ times}$$

29. If Rohan drives car at 48 km/hr he arrives Delhi at 3:00 PM . If he drives car at 80 km/hr he will arrive at the same place at 11:00 AM . At what speed must he drive the car to get there at 1:00 PM ?

- A. 50 km/hr
- B. 55 km/hr
- C. 60 km/hr
- D. 62 km/hr

Ans. C

Sol.

When he travels at the speed of 80 km/hr he reaches at 11:00 AM.

Let when he travels at the speed of  $x$  km/hr he reaches at 1:00 PM.

When he travels at the speed of 48 km/hr he reaches at 3:00 PM.

As there is a fixed difference of 2 hours between these times.

NOTE - If Time is in A.P. and Distance is constant in that case Speed will be in H.P.

⇒ 80 ,  $x$  , 48 will be in H.P.

$$\text{Required speed } (x) = \frac{2 \times 80 \times 48}{128} = 60 \text{ km/hr}$$

30. If the L.C.M. and H.C.F. of two expressions are  $(x^2 + 6x + 8)(x + 1)$  and  $(x + 1)$  respectively and one of the expressions is  $x^2 + 3x + 2$ , find the other.

- A.  $x^2 + 5x + 4$
- B.  $x^2 - 5x + 4$
- C.  $x^2 + 3x + 6$
- D.  $x^2 - 3x + 6$

Ans. A

Sol.

Let the other term be B.

Multiplication of two numbers = Multiplication of their LCM and HCF

$$\text{So } (x^2 + 3x + 2)B = (x^2 + 6x + 8)(x + 1)(x + 1)$$

$$\text{or } (x+1)(x+2)B = (x+1)^2(x+2)(x+4)$$

$$\text{or } B = (x+1)(x+4) = x^2 + 5x + 4$$

31. The least number which when divided by 4, 5, 6 and 7 leaves a remainder 4 but when divided by 8 leaves no remainder is

- A. 864



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- B. 432
- C. 848
- D. 424
- Ans. D
- Sol.

The LCM of 4, 5, 6 and 7 = 420

$$\therefore \text{Required number} = 420k + 4$$

which is exactly divisible by 8 for some value of k.

$$\text{Now, } 420k + 4 = 52 \times 8k + (4k + 4)$$

when  $k = 1, 4k + 4 = 8$ , which is divisible by 8.

$$\therefore \text{Required number} = 420 \times 1 + 4 = 424$$

So, the correct response is option D.

32. A tank can be filled by a tap in 20 min and by another tap in 60 min. Both the taps are kept open for 5 min and then the 1st tap is shut off. After this, how much time the tank will be completely filled?

- A. 20 min
- B. 30 min
- C. 45 min
- D. 40 min

Ans. D

Sol.

Part of the tank filled by both in 5 min

$$= 5 \times \left( \frac{1}{20} + \frac{1}{60} \right) = \frac{5 \times (6+2)}{120}$$

$$= \frac{8}{24} = \frac{1}{3}$$

$$\text{Remaining part} = \left( 1 - \frac{1}{3} \right) = \frac{2}{3}$$

$\therefore \frac{1}{60}$  part is now filled in 1 min

$$\therefore \frac{2}{3} \text{ part is now filled in } 60 \times \frac{2}{3} = 40 \text{ min}$$

33. In the following question, select the odd word pair from the given alternatives.

- A. Goldsmith : Ornament
- B. Chef : Food
- C. Architect : Design
- D. Teacher : Book

Ans. D

Sol.

The relationship among the given word pair is – (worker : product)

Like goldsmith make ornaments, chef makes food and architect makes design While teacher gives education and book is written by author.

Hence, option D is the correct answer.

34. Which number will replace the question mark (?) In the following series. 196, 100, ?, 28, 16, 10

- A. 52
- B. 50
- C. 56
- D. 58

Ans. A

Sol.

Pattern is :

$$196 \xrightarrow{+2)+2} 100 \xrightarrow{+2)+2} 52 \xrightarrow{+2)+2} 28 \xrightarrow{+2)+2} 16 \xrightarrow{+2)+2} 10$$

Hence, option A is the correct response.

35. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

Q, P, M, H, ?

- A. E
- B. A
- C. Z
- D. X

Ans. B

Sol.

Given series follows the pattern given below:

$$Q \xrightarrow{-1} P \xrightarrow{-3} M \xrightarrow{-5} H \xrightarrow{-7} A$$

Hence, the correct answer is option B.

36. Arrange the following words in a logical and meaningful order.

- 1) Download
  - 2) Play Store
  - 3) Zomato
  - 4) Mobile
  - 5) Order Food
  - 6) Open App
- A. 6, 4, 2, 3, 5, 1
  - B. 2, 4, 3, 1, 5, 6
  - C. 4, 2, 3, 1, 6, 5
  - D. 4, 3, 6, 2, 1, 5

Ans. C

Sol.

To order food from a mobile app,

4. Mobile
2. Play Store
3. Zomato
1. Download



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6. Open App  
5. Order Food  
Correct sequence = 4, 2, 3, 1, 6, 5  
Hence, the correct response is (C).

37. Which letter will replace the question mark(?) in the following series?  
G, I, F, H, ?, G

- A. E
- B. L
- C. M
- D. K

Ans. A  
Sol.  
Given series follows the pattern given below:

$$G \xrightarrow{+2} I \xrightarrow{-3} F \xrightarrow{+2} H \xrightarrow{-3} E \xrightarrow{+2} G$$

Hence, the correct answer is option A.

38. Select the letter combination that is placed sequentially on the blank spaces of the letter series given below to complete the given series.

r\_te\_at\_ra\_er\_te

- A. areta
- B. raret
- C. aetr
- D. raeta

Ans. A  
Sol.  
The sequence is - rate  
The complete series is -  
rate/rate/rate/rate.

Hence, option A is the correct response.

39. Select the letter combination that is placed sequentially on the blank spaces

of the letter series given below to complete the given series.

\_\_ ppq\_p\_p\_qp

- A. qqppq
- B. pppqq
- C. qpqqp
- D. pqpqp

Ans. D

Sol.  
The sequence is pqp.  
The complete series is -  
pqp/pqp/pqp/pqp  
The correct option is (d)

40. In a certain code language, '+' represents '÷', '÷' represents '+', 'x' represents '-' and '-' represents 'x'. What is the answer to the following question?  
 $25 - 7 \times 12 \div 48 + 6 = ?$

- A. 149
- B. 198
- C. 171
- D. 101

Ans. C

Sol.

<b>Symbol</b>	+	÷	x	-
<b>Meaning</b>	÷	+	-	x

Given :  $25 - 7 \times 12 \div 48 + 6 = ?$

After changing the symbols,

$$= 25 \times 7 - 12 + 48 \div 6$$

Applying **BODMAS** we get,

$$= 25 \times 7 - 12 + 8$$

$$= 175 - 12 + 8$$

$$= 175 - 4$$

$$= 171$$

Hence, option C is the correct response.

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