

Lockdown 2.0 Study Plan

Day 5: Download PDF



1. The National Highways Authority of India works under which ministry?
A. Minister of Commerce and Industry
B. Ministry of Road Transport and Highways
C. Ministry of Finance
D. Minister of Environment, Forest and Climate Change
2. Who founded the Saluva Dynasty of Vijaynagar Empire?
A. Narsimhan
B. Narsa Nayaka
C. Krishandev Raya
D. Deva Raya
3. On the banks of which river the Vijayanagar Empire was established ?
A. Bhim
B. Tungabhadra
C. Krishna
D. Kaveri
4. Thillai Nataraja Temple is located in which state?
A. Madhya Pradesh
B. Orrisa
C. Tamil nadu
D. Sikkim
5. Which of the following dance is not one of the eight classical dances recognised by Sahitya Natak Academy?
A. Kathakali
B. Manipuri
C. Sattriya
D. Ghoomar
6. Sanchi Stupa is printed on which new currency note?
A. 50
B. 100
C. 200
D. 500
7. Dilwara Jain temples are designed by _____.
A. Vimal Shah
B. Edward Lutyens
C. Vastupala
D. Le Corbusier

8. Which national monument is printed on new ten rupee currency note?
A. Hampi Temple
B. Red fort
C. Sanchi Stupa
D. Konark Sun Temple

9. Which is the most saline ocean in the world?
A. Atlantic Ocean
B. Pacific Ocean
C. Indian Ocean
D. Arctic Ocean

Select the most appropriate meaning of the underlined idiom in the given sentence.

10. Our PM is received with open arms wherever he goes.
A. Honourably
B. Promptly
C. Warmly
D. Harmoniously

Select the most appropriate meaning of the underlined idiom in the given sentence.

11. Mrs. Arora has got the green light from the principal to organise a science conference in the college.
A. Got permission to go ahead with something
B. Got energy and motivation to do something
C. Got fired for doing something
D. Got the work started

In the following question, the given sentence has four parts marked P, Q, R and S. Choose the part of sentence with the error and mark as your answer. If there is no error, mark 'No error (S)' as your answer.

12. The behaviour of resident spiders (P)/ towards pirate spiders and their own prey (Q)/ are quite different. (R)/ No error (S)
A. P
B. Q
C. R
D. S

Choose the correct antonym of the given word from the options given below.



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13. INUNDATION

- A. Flood
- B. Torrent
- C. Tide
- D. Drought

Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution'.

14. I think you and me owe him an explanation.
- A. You and I
 - B. No substitution
 - C. You and mine
 - D. Your and I

Select the most appropriate option to fill in the blank.

15. Many dermatologists _____ products which have hyaluronic acid as it helps relieve dryness of the skin.
- A. blend
 - B. extend
 - C. recommend
 - D. tend

Given below are four jumbled sentences. Pick the option that gives their correct order.

16. P: Lead author Margareta Hakanson said that the main reason seems to be "that the movements transferred from the horse's body to the rider are very like the body movements made by a person walking."
Q: Riding on horseback not only eases back pain, but also boosts the rider's confidence and emotional well being, according to a new study.
R: These findings contribute to the growing body of evidence that horseback riding and related equine assistance therapy programs for disabled and injured individuals benefit human participants.
S: There are no excessive movements, but a continuous bilateral influence on postural balance that enhances balance reactions and the fine movements in the rider's trunk
- A. RSQP

- B. QRPS
- C. PQRS
- D. RPSQ

Choose the most appropriate option to change the narration (direct/indirect) of the given sentence.

17. He asked me that if he could have my pen. I answered in the affirmative.
A. He said to me, "If I could have your pen?" I said "Yes."
B. He asked me, "Could I have your pen?" I answered in the affirmative.
C. He asked me, "If he could have my pen? I answered in the affirmative."
D. He said to me, "Can I have your pen?" I said, "Yes."

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

18. touching along the side or boundary
- A. harmonious
 - B. inconspicuous
 - C. unpretentious
 - D. contiguous

Direction: Find a word that is the ANTONYM OF

19. PIQUANT
- A. peppery
 - B. pungent
 - C. bland
 - D. interesting

20. Average of 9 numbers is 23. If 2 is added to each of the 9 numbers what will be the new average?

- A. 27
- B. 24
- C. 23
- D. 25

21. Pointing to a boy, Kamal said, " I am married with his younger brother who lives in Dubai", then how is Kamal related to that boy?

- A. Sister-in-law
- B. Daughter
- C. Sister
- D. Aunt



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22. Read the following information and answer the questions given below it:

- 'A + B' means 'A is the son of B'.
- 'A - B' means 'A is the wife of B'.
- 'A × B' means 'A is the sister of B'.
- 'A ÷ B' means 'A is the brother of B'.
- 'A = B' means 'A is father of B'.

What does C + D ÷ G mean?

- A. G is aunt of C
- B. C is the niece of G.
- C. D is Brother of G.
- D. G is sister of D

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

Swim, Swam, ?, Swimming, Swims

- A. Swimm
- B. Swimt
- C. Swimm
- D. Swimmen

24. From the given words, select the word which can be formed using the letters of the given word.

- A. ACTOR
- B. MANOR
- C. CHAMP
- D. MANIA

25. Select the related word/letters/numbers from the given alternatives:

DCBA : WXYZ :: IJKL : ?

- A. SRQP
- B. QPON
- C. RQPO
- D. PONM

26. Mr Mehta has a salary of 16,200 per month. In the first month of the year, he spends 50% of his income on food, 40% on clothing and saves 11.11% of what he has spent. In the next two months, he saves 9.09% of what he has spent (spending 57.33% of his income on food). In the fourth month, he gets an increment of 11.11% on his salary and spends every single penny on celebrating this occasion. But from fifth month onwards good sense prevails on him and he saves 12.5%, 10%, 20%, 15%, 15%,

8.33%, 20% and 12.5% on his new income per month. The ratio between the average of the savings for the two months having the highest savings to the average of the savings for the two months having the lowest savings is:

- A. 2.67
- B. 5.33
- C. 3.33
- D. None of these

27. A fruit vendor buys fruits from the fruit market at wholesale prices and sells them at his shop at retail prices. He opens his shop for only 30 days in a month. He buys fruits in multiples of 100 and sells them in multiples of a dozen. He buys bananas for Rs. 85 per hundred and sells at Rs. 18 per dozen, buys raspberries at Rs. 380 per hundred and sells at Rs. 76 per dozen and buys gooseberries at Rs. 360 per hundred and sells at Rs. 72 per dozen. Which of the three fruits yields him the maximum percentage profit?

- A. Bananas
- B. Raspberries
- C. Gooseberries
- D. Both B and C

28. The sum of two numbers is 75 and their arithmetic mean is 25% higher than their geometric mean. Find the number.

- A. 50, 25
- B. 60, 15
- C. 65, 10
- D. 40, 35

29. Which of the following is a perfect square?

- A. 1,04,976
- B. 3,25,137
- C. 2,93,729
- D. All of these

30. The difference of the minimum possible and maximum possible remainder, when a is divided by b.

- A. a-b
- B. b-a
- C. b-1
- D. a-1



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###ANSWERS###

1. Ans. B.

• The National Highways Authority of India is a nodal agency of the **Ministry of Road Transport and Highways**.

• It was set up in **1988**.

• It was created through the promulgation of the National Highways Authority of India Act, 1988.

2. Ans. A.

* **Saluva Narshiman was the founder of Saluva dynasty of Vijaynagar Empire.**

* Saluva dynasty ruled from 1486-1505, which was the **smallest reign** among four dynasties.

* In 1452, he was given the title Maha Mandaleshwara of Chandragiri during the reign of Mallikarjuna Raya.

* Vasco da Gama landed in Calicut during his time in 1498.

3. Ans. B.

Harihar and Bukka founded the Vijayanagar City on the southern banks of Tungabhadra.

* They found the Vijayanagar Empire in **1336**.

* In 1336 A.D. Harihar I became the ruler of Sangam Dynasty.

* He captured Mysore and Madurai and expanded the kingdom.

* The temple building activity of the Vijayanagar rulers produced a new style, called the Vijayanagar style.

4. Ans. C.

* **Thillai Nataraja Temple is located at Chidambaram in Tamil Nadu.**

Chidambaram was the capital of the Chola dynasty.

* It is dedicated to Lord Shiva.

* It is also known as Chidambaram Nataraja temple. It is one of the oldest surviving active temple complexes in South India.

5. Ans. D.

* Ghoomar is a folk dance of Rajasthan and is not one of the eight classical dances recognised by Sahitya Natak Academy.

* The **eight dances** recognised by Sahitya Natak Academy are-

a) Bharatanatyam

b) Odissi

c) Kuchipudi

d) Mohiniaattam

e) Sattriya

f) Kathakali

g) Kathak

h) Manipuri

* The Sangeet Natak Academy was set up by the Indian education ministry on 31 May 1952.

6. Ans. C.

The Sanchi Stupa is printed on new 200 rupee currency note.

* It is located near Bhopal, Madhya Pradesh.

* It is built on the relics of the two seniormost disciples of the Buddha, Sariputta and Maha Moggallana.

* It was discovered by Alexander Cunningham in 1851.

* Note that 'Toranas' are gateways of Stupa and is depicted with various pictures and writings of Buddhism.

7. Ans. C.

* Dilwara Jain temples are located in Rajasthan. These Jain temples were built by Vimal Shah and **designed by Vastupala.**

* The Jain Temples consist of five temples-

a) Vimal Vasahi

b) Luna Vasahi

c) Pittalhar

d) Parashvanath

e) Mahavir swami temple

8. Ans. D.

Konark Sun Temple is printed on the new ten rupee currency notes.

* Konark Sun Temple built in 13th century and is located in Puri, Odisha.

* It is built in Kalinga Architecture and also known as Surya Devalaya.

* Rabindranath Tagore said about this temple that "Here the language of stone surpasses the language of man."

9. Ans. A.

• The Atlantic Ocean is the most saline ocean in the world.

• Aquarius is the first NASA instrument specifically designed to study surface ocean salinity from space.



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- The data shows that the average ocean salinity is 35 grams per kilogram.
- Pacific is the second most saline ocean in the world.

10. Ans. C.

"With open arms" means with great affection or enthusiasm. Option C "warmly" is closest to this meaning. That is why C is the right answer.

11. Ans. A.

"Get the green light" means "to receive permission to proceed with some action or task" which is similar to "got permission to go ahead with something". Hence option A is correct.

12. Ans. C.

'Behaviour' is a singular noun, hence, the verb must also be singular to maintain subject-verb agreement. Therefore, 'are' must be replaced with 'is' to form a grammatically correct sentence.

Hence, option C is the correct answer.

13. Ans. D.

The meanings of the words are:

Inundation: flooding.

Flood: an overflow of a large amount of water beyond its normal limits, especially over what is normally dry land.

Torrent: a strong and fast-moving stream of water or other liquid.

Tide: the alternate rising and falling of the sea, usually twice in each lunar day at a particular place, due to the attraction of the moon and sun.

Drought: a prolonged period of abnormally low rainfall, leading to a shortage of water.

Hence, option D is the correct answer.

14. Ans. A.

Subjective and objective pronouns are simply pronouns that occur in either the subject or the object of the sentence. Subjective pronouns tell us who or what the sentence is about. Objective pronouns receive the action in the sentence. Here the underlined part is the subject of the second clause so subjective pronoun "I" should be used in place of "me". Option A fulfills all the conditions so it is the correct option.

15. Ans. C.

"To recommend" means to put forward (someone or something) with approval as

being suitable for a particular purpose or role. This is suitable for this sentence. The other options are irrelevant here. That is why C is the correct choice.

16. Ans. B.

Sentence Q states the subject of this paragraph i.e. benefits of horse riding found by a new study. The other sentences further discuss about how the body movements on the horseback are advantageous for the riders. Therefore B is the right answer as it puts sentence Q in the beginning of the sequence.

17. Ans. D.

The given sentence is in indirect form of narration. It has to be converted from indirect to direct form. The given sentence has two parts.

The first part is in interrogative form. It is a kind of yes/no questions. Here 'asked' will be changed to 'said to' in the direct narration. In yes/no questions the reporting part and the reported parts are joined with conjunction 'if/whether'. The conjunction will be removed. The pronoun of the reported speech 'he' is changed to 'I'. The reported verb will be made interrogative i.e. it is kept in the order of verb + subject form. Also, the modal verb 'could' will be changed to 'can'. Question mark(?) will be placed at the end of the interrogative sentence.

The second part i.e. the reply part of the question is in assertive form. In such question if the reply is 'answered in the affirmative' then it will be converted to 'yes' and if the reply is 'answered in the negative' then it will be replaced with 'no'. So the correct answer is option D.

18. Ans. D.

Harmonious means symmetrical.

Inconspicuous means visible or apparent.

Unpretentious means honest.

Contiguous means touching along the side or boundary.

Hence, option D is the correct answer.

19. Ans. C.

Let's first learn the meanings of the words:

Piquant = savoury or tasty. Therefore, bland is the correct antonym for it.

Pungent = strong.

Hence, option C is the correct answer.



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20. Ans. D.

$$\text{Average} = \frac{\text{Sum of observations}}{\text{Total number of observations}}$$

$$23 = (\text{Sum of observations}) / 9$$

$$\text{Sum of observations} = 23 \times 9 = 207$$

If 2 is added to all the 9 numbers

$$\text{Average} = [207 + 2 \times (9)] / 9$$

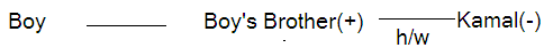
$$\text{Average} = 225 / 9 = 25$$

Short Trick:

If the average of n numbers is "a" and if "x" is added or subtracted from each given number, then average becomes (m + x) and (m - x) respectively.

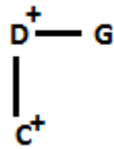
So, the new average = 23 + 2 = 25.

21. Ans. A.



From the above figure, its clear that Kamal is the sister-in-law of that boy. Hence, the correct answer is option A.

22. Ans. C.



The gender of G is not given. {Option (a) and (d) is false}.

C is the nephew of G. (option b is false)

And D is brother of G and father of C. (Given)

Option (c) is correct.

23. Ans. B.

Verb forms of Swim in English grammar-

V1- Swim

V2- Swam

V3- Swum

V4- Swimming

V5- Swims

Hence, missing term is Swum.

24. Ans. D.

25. Ans. C.

We can clearly see that the letters are arranged in alphabetical order but in reverse fashion.

So ABCD is written as DCBA and this is first from the starting so relating it they have taken first from the ending itself.

Now IJKL is 3rd pair from the starting. So look out for 3rd pair from ending. That is OPQR. Now reverse it. RQPO

Hence C

26. Ans. B.

Let's first define the measures

$$11.11\% = 1/9$$

$$\& 9.09\% = 1/11$$

In first month Mr. Mehta saves = 1/9 of expenses (i.e. 1/10 of income) = 16200

$$\times \frac{1}{10} = \text{Rs. } 1620$$

In second & third month Mr. Mehta saves = 1/11 of expenses (i.e. 1/12 of income)

$$= 16200 \times \frac{1}{12} = \text{Rs. } 1350 \text{ each}$$

In the fourth month his salary increases by 1/9. So his new salary = 16200 +

$$\times \frac{1}{9} = \text{Rs. } 18000$$

Since he spent all his income in the fourth month, so his savings are NIL.

$$\text{His savings in the fifth month} = 18000 \times 12.5\% = \text{Rs. } 2250$$

$$\text{His savings in the sixth month} = 18000 \times 10\% = \text{Rs. } 1800$$

$$\text{His savings in the seventh month} = 18000 \times 20\% = \text{Rs. } 3600$$

$$\text{His savings in the eighth month} = 18000 \times 15\% = \text{Rs. } 2700$$

$$\text{His savings in the ninth month} = 18000 \times 15\% = \text{Rs. } 2700$$

$$\text{His savings in the tenth month} = 18000 \times 8.33\% = \text{Rs. } 1500$$

$$\text{His savings in the eleventh month} = 18000 \times 20\% = \text{Rs. } 3600$$

$$\text{His savings in the twelfth month} = 18000 \times 12.5\% = \text{Rs. } 2250$$

$$\text{Average of highest savings} = (3600 + 3600)/2 = 3600$$

$$\text{Average of lowest savings} = (1350 + 0)/2 = 675$$

$$\text{Now required ratio} = 3600/675 = 5.33$$

27. Ans. A.

To solve this problem with ease, let's the number of fruits the fruit vender buys at a time be 300 each (LCM of 12 and 100)

So for 300 Bananas

$$\text{CP} = 85 \times 3 = 255$$

$$\text{SP} = 18 \times 25 = 450$$

$$\text{Profit} = \frac{(\text{SP} - \text{CP})}{\text{CP}} \times 100 =$$

$$\frac{195}{255} \times 100 = 76.47\%$$



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For 300 Raspberries

$$CP = 380 \times 3 = 1140$$

$$SP = 76 \times 25 = 1900$$

$$\text{Profit} = \frac{(SP - CP)}{CP} \times 100 = \frac{760}{1140} \times 100 = 66.67\%$$

So for 300 Gooseberries

$$CP = 360 \times 3 = 1080$$

$$SP = 72 \times 25 = 1800$$

$$\text{Profit} = \frac{(SP - CP)}{CP} \times 100 = \frac{720}{1080} \times 100 = 66.67\%$$

Hence Bananas yields him the maximum percentage of profit.

28. Ans. B.

Let first number = x

Second number = y

$$\text{So } x + y = 75$$

$$\Rightarrow y = 75 - x \dots\dots\dots (1)$$

Also, arithmetic mean of these two numbers is 25% higher than their geometric mean.

$$\Rightarrow AM = G.M. + G.M. \times \frac{25}{100}$$

$$\Rightarrow \frac{x+y}{2} = \sqrt{xy} + \frac{\sqrt{xy}}{4}$$

$$\Rightarrow \frac{75}{2} = \sqrt{xy} + \frac{\sqrt{xy}}{4}$$

$$\Rightarrow 5 \times \sqrt{xy} = 150$$

$$\Rightarrow \sqrt{xy} = 30$$

$$\Rightarrow xy = 900$$

Using equation (1):

$$\Rightarrow x(75 - x) = 900$$

$$\Rightarrow 75x - x^2 = 900$$

$$\Rightarrow x^2 - 75x + 900 = 0$$

$$\Rightarrow x^2 - 60x - 15x + 900 = 0$$

$$\Rightarrow x(x - 60) - 15(x - 60) = 0$$

$$\Rightarrow (x - 60)(x - 15) = 0$$

$$\Rightarrow x = 60 \text{ or } x = 15$$

If x = 60 then y = 15

And if x = 15 then y = 60

29. Ans. B.

(i) we know that number ending with 2,3,7 and 8 can never be perfect square.

So, 3,25,137 is not a perfect square.

$$(ii) \quad 1,04,976 = 2 \times 2 \times 2 \times 2 \times 3 \times 3 \times 3 \times 3 \times 3 \times 3 \times 3 \times 3$$

As there are exact pairs (each pair consists of same prime factor) of each prime factor. So, it is also a perfect square.

(iii) 2,93,729 = It is a prime number, so it is not a perfect square.

So, option B is correct.

30. Ans. C.

When a is divided by b

Minimum possible remainder = 0 (when a is exactly divided by b)

Maximum possible remainder = b-1

$$\text{So Difference of the minimum possible and maximum possible remainder} = (b - 1) - 0 = b - 1$$



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