

Lockdown 3.0 Study Plan

Day 5



1. Hola Mohalla festival was celebrated at _____ from 10-12 March 2020

- A. Anandpur Sahib
- B. Harminder Sahib
- C. Patna Sahib
- D. Hemkund Sahib

Ans. A

Sol.

* Hola Mohalla festival was celebrated at Anandpur Sahib Punjab from 10-12 March 2020.

* Hola Mohalla is a Sikh festival celebrated in the month of Phalgun, a day after Holi.

* Hola Mohalla was instituted by the tenth Sikh Guru, Gobind Singh, in 1757 AD.

* Recently, the Indian Government has accorded the Holla Mohalla festival the status of a "National Festival."

2. In which year was the first Round Table Conference held in London?

- A. 1919
- B. 1907
- C. 1930
- D. 1923

Ans. C

Sol.

• The first Round Table Conference convened from **12 November 1930 to 19 January 1931**.

• The second Round Table Conference was held in London from 7th September 1931 to 1st December 1931 with the participation of Gandhi and the Indian National Congress.

• The third Round Table Conference was held from 17th November to 24th December 1932. It was not attended by the Indian National Congress and Gandhi.

• **B.R. Ambedkar and Tej Bahadur Sapru** took part in all the three round table conferences.

3. Who is the author of the book titled 'The Anarchy: The East India Company, Corporate Violence, and the Pillage of an Empire'?

- A. Pankaj Mishra
- B. Shashi Tharoor
- C. VP Menon
- D. William Dalrymple

Ans. D

Sol.

• William Dalrymple is the author of the book "The Anarchy: The East India Company, Corporate Violence, and the Pillage of an Empire".

• This book throws light on the lesser spoken era of the 17th 18th and the 19th century India, a lawless land where greed triumphed. Unfortunately, in our Indian schools we are not exposed to the history where the rulers are not heroes but flawed villains.

4. A situation where the expenditure of the government exceeds its revenue is known as _____.

- A. Deficit Financing
- B. Default
- C. Morbidity
- D. Devaluation

Ans. A

Sol.

• When the **revenue** is more than the **expenditure** it is called as surplus **budget** where as when the **expenditure** is more than the **revenue** it is **called** as deficit **budget or** Deficit Financing.

5. Who discovered cells in the human body?

- A. Charles Darwin
- B. Albert Einstein
- C. Herbert Spencer
- D. Robert Hooke

Ans. D

Sol.

• The human brain accounts for around 80 billion of the cells.

• Cells were discovered by **Robert Hooke** in 1665, who named them for their resemblance to cells inhabited by Christian monks in a monastery.

• **Cells** are the building blocks of all living beings. They provide structure to the body and convert the nutrients taken from the food into energy.

6. According to India State of Forest Report 2019, how much of the total geographical area of the country is covered by forests and trees?

- A. 42.56%
- B. 21.30%



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- C. 24.56%
- D. 34.56%

Ans. C

Sol.

- **Forest** cover is the total geographical **area** declared as **forest** by the government.
- As of 2019, the total **forest** cover in **India** is 807,300 Sq km² (80.73 million hectares), which is 24.56 percent of the total geographical **area** of the country.
- Madhya Pradesh has the largest forest area and Mizoram has the largest area in terms of percentage area.
- Punjab has the lowest forest cover in terms of the percentage area.

7. A diverging lens is used as a remedy in which of the following defects in the eyes?

- A. Presbyopia
- B. Astigmatism
- C. Hyperopia
- D. Myopia

Ans. D

Sol.

- Presbyopia – Bifocal lens
- Astigmatism – Cylindrical lens
- Hyperopia – Converging lens
- Myopia – Diverging lens

8. By which method is turpentine oil purified?

- A. Evaporation
- B. Elevation
- C. Steam distillation
- D. Crystallization

Ans. C

Sol.

- Steam distillation is a separative process used to purify temperature sensitive materials.
- The boiling point of turpentine oil is 90°C to 115°C and it is immiscible with water. So steam distillation is used to purify it.

9. _____ is the largest city in Sri Lanka.

- A. Colombo
- B. Negombo
- C. Jaffna
- D. Kandy

Ans. A

Sol.

- **Colombo** is the largest city in Sri Lanka.
- It is situated on the west coast of island country.
- It is also the capital of Sri Lanka.

10. The Pritzker Award is an international award to honor the contribution made in the field of _____.

- A. Architecture
- B. Mathematics
- C. Literature
- D. Medicine

Ans. A

Sol.

* **The Pritzker Award is an international award to honor the contribution made in the field of Architecture.**

* It was founded in 1979 by Jay A. Pritzker and his wife Cindy.

* The first award was given to Philip Johnson.

11. Select the most appropriate option to fill in the blank.

The poor man was _____ entry to the restaurant.

- A. derived
- B. denied
- C. devoid
- D. deluded

Ans. B

Sol.

Let's understand the meaning of the given words:

Derived: formed or developed from something else; not original

Denied: refuse to grant, as of a petition or request

Devoid: completely wanting or lacking

Deluded: be false to; be dishonest with

To stop someone from getting somewhere, we use word deny. Hence, option B is the correct answer.

12. Select the most appropriate option to fill in the blank.

Have you _____ for a job in this company?

- A. approved
- B. applied
- C. supplied
- D. appointed



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Ans. B

Sol.

Let's understand the meaning of the given words:

Approved: established by authority; given authoritative approval

Applied: be pertinent, relevant or applicable

Supplied: give something useful or necessary to

Appointed: selected for a job

Hence, option B is the correct answer.

13. Select the most appropriate one word substitution for the given group of words.

To increase the speed

A. accelerate

B. activate

C. exhilarate

D. assimilate

Ans. A

Sol.

Accelerate: move faster

Activate: put in motion, initiate (a device, reaction, circuit, etc)

Exhilarate: fill with sublime emotion

Assimilate: become similar to one's environment

Hence, option A is the correct answer.

14. Direction: Select antonym of the given word.

DEXTERITY

A. skill

B. ignorance

C. mastery

D. agility

Ans. B

Sol.

Let's understand the meaning of the given words:

Dexterity: the ability to do something quickly and skillfully

E.g.: he can do any sort of work requiring handiness and dexterity

Skill: the ability to do something well

Ignorance: lack of knowledge

E.g.: no mask could conceal his ignorance

Agility: the ability to move your body quickly and easily

Hence, option B is the correct answer.

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

The mathematical calculation of this problem is easy than a previous one.

A. easier than the

B. easiest than the

C. easy than the

D. No Improvement

Ans. A

Sol.

The underlined part must be replaced with option A because a comparison has been made in the sentence two problems. So, comparative degree of easy which is easier should be used in place of easy. Also, as the problem is specific, so article 'the' will be used before it. The correct sentence would read "The mathematical calculation of this problem is easier than the previous one".

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

Dead heat

A. A deadly blast of hot air

B. A strong heat wave

C. Close contest that ends in a tie

D. Strong opposition to one's ideas

Ans. C

Sol.

The idiom 'dead heat' refers to a close contest where no one wins and ends in a tie. Hence, option C is the correct answer.

17. Select the INCORRECTLY spelt word.

A. pierce

B. piteous

C. pursue

D. patrner

Ans. D

Sol.

The incorrectly spelt word is "partner" and the correct spelling is "partner" which means a person associated with another person in some activities

Let's understand the meaning of other words:

Pierce: to make hole

Piteous: deserving or inciting pity

Pursue: to follow

Hence, option D is the correct answer.



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18. Select the indirect narration of the given sentence.

He said to the hotel receptionist, "Can you tell me the tariff of rooms?"

- A. He asked the hotel receptionist that if he can tell him the tariff of rooms.
- B. He asked the hotel receptionist to tell him the tariff of rooms.
- C. He enquired the hotel receptionist if he can tell him the tariff of rooms.
- D. He asked the hotel receptionist if he could tell him the tariff of rooms.

Ans. D

Sol.

This is an interrogative sentence of direct narration. We will convert it into indirect narration accordingly. Said to in the reporting speech will be converted to asked. Inverted commas are removed. If the reported question is in yes/no question then if/whether is used, here inverted commas will be removed and if will be used. Can will be changed to could. 2nd person pronoun will be changed according to the object of the reporting speech and 1st person pronoun will be changed according to the subject of the reporting speech. Hence, option D is the correct answer.

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

P: For example, "b" seems to be "d", "quite" is "quiet" and "from" is "form".

Q: The reader is unable to perceive correctly what is on a page.

R: Dyslexia can occur in persons of normal, or even above average intelligence.

S: Letters and numbers often appear reversed.

- A. RQSP
- B. PSQR
- C. SPQR
- D. PQRS

Ans. A

Sol.

Sentence R introduces the theme of Dyslexia, it will come first. Sentence Q and sentence S reveals more information about the 'Dyslexia' problems. Sentence

P refers to the example of the reversals, mentioned in sentence S. So, sentence Q becomes the second in order, and sentence S and P will come respectively. Thus, the correct order is RQSP.

Hence, option A is the correct answer.

20. 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.

21. Select the number group in the options which is similar to the given number-group.

(26, 69, 361)

- A. (22, 44, 196)
- B. (19, 76, 361)
- C. (18, 59, 238)
- D. (24, 69, 514)

Ans. B

Sol.

As, $[(26+69)/5]^2 = [95/5]^2 = 19^2 = 361$

Similarly,

$[(19+76)/5]^2 = [95/5]^2 = 19^2 = 361$

Hence, the correct answer is option B

22. In the following question, which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?

ab_qab_qa_mq_bmq

- A. mbma
- B. mmba
- C. bamm
- D. bmma

Ans. B

Sol.

In this question, we show that-

Given series: ab_qab_qa_mq_bmq



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Inserting letters of option B we get,
abmq/ abmq /abmq/ abmq
So the correct answer is option B.

23. Three of the following four words are alike in a certain way and one is different. Pick the odd word out.

- A. Monday
- B. Tuesday
- C. Friday
- D. Sunday

Ans. B
Sol.

All except Tuesday has only 2 vowels.
Hence, option (B) is the odd word.

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

8, 5, 9.5, 26.75, ?, 444.3125

- A. 95.50
- B. 97.625
- C. 87.25
- D. 85.625

Ans. B

Sol. The 1st number is multiplied by 0.5 and add 1 to get the second number, the second number is multiplied by 1.5 and add 2 to get the third number, third number is multiplied by 2.5 and add 3 to get the fourth number and so on.

$$8 \times 0.5 + 1 = 5$$

$$5 \times 1.5 + 2 = 9.5$$

$$9.5 \times 2.5 + 3 = 26.75$$

$$26.75 \times 3.5 + 4 = ?$$

$$? = 93.625 + 4$$

$$? = 97.625$$

$$97.625 \times 4.5 + 5 = 444.3125$$

So the correct answer is option B.

25. In a certain code if 'M' denotes ' \div ', 'N' denotes ' \times ', 'O' denotes '+' and 'P' denotes '-', then what will be the value of 17 P 25 O 6 N 2 O 12 M 6?

- A. 6
- B. 9
- C. 7
- D. 2

Ans. A

Sol. Given: 17 P 25 O 6 N 2 O 12 M 6

After changing the signs:

$$= 17 - 25 + 6 \times 2 + 12 \div 6$$

Using BODMAS we get,
 $= 17 - 25 + 6 \times 2 + 2$
 $= 17 - 25 + 12 + 2$
 $= 31 - 25$
 $= 6$

Hence, option A is the correct response.

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

- A. Bats: Screech
- B. Snakes: Hiss
- C. Turkeys: Squeak
- D. Whales: Whistle

Ans. C

Sol. In the options, sounds/noises made by the animals are given.

The noise made by a turkey is gobble and not squeak.

Rest of them are true.

Hence, option (C) is the odd word.

27. In the following question, select the related number from the given alternatives.

$$24: 36 :: 35: ?$$

- A. 36
- B. 100
- C. 64
- D. 121

Ans. C

Sol. As,
 $(2+4)^2 = 36$

Similarly,
 $(3+5)^2 = 64$

Hence, option C is the right answer.

28. If $a - b = 5$ and $a^2 + b^2 = 45$, then the value of ab is:

- A. 25
- B. 10
- C. 15
- D. 20

Ans. B

Sol.

We have $a - b = 5$.

Squaring both sides :

$$(a - b)^2 = 5^2$$

$$\Rightarrow a^2 + b^2 - 2ab = 25$$

$$\Rightarrow 45 - 2ab = 25$$

$$\Rightarrow 20 = 2ab$$

$$\Rightarrow ab = 10$$



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29. If $x^4 + x^{-4} = 2599$, then one of the values of $x - x^{-1}$, where $x > 0$, is equal to:

- A. 9
- B. 7
- C. 5
- D. 8

Ans. B

Sol.

Here

$$\left(x^4 + \frac{1}{x^4}\right) = 2599$$

Now adding and subtracting 2 from the above equation :

$$\left(x^4 + \frac{1}{x^4} + 2\right) = 2599 + 2$$

$$\Rightarrow \left(x^2 + \frac{1}{x^2}\right)^2 = 2601$$

$$\text{hence } \left(x^2 + \frac{1}{x^2}\right) = 51$$

now subtracting 2 from both sides we get :

$$\left(x^2 + \frac{1}{x^2} - 2\right) = 51 - 2 = 49$$

$$\Rightarrow \left(x - \frac{1}{x}\right)^2 = 49$$

$$\Rightarrow \left(x - \frac{1}{x}\right) = 7$$

30. Two pipes A and B can fill a tank in 18 minutes and 24 minutes respectively. If both the pipes are opened simultaneously, then after how much time should pipe B be closed so that the tank is full in 12 minutes?

- A. 6 minutes
- B. 9 minutes
- C. 8 minutes
- D. 5 minutes

Ans. C

Sol.

A = 18 minutes and B = 24 minutes

LCM (18,24) = 72

$$\text{Efficiency of A} = \frac{72}{18} = 4 \text{ unit}$$

$$\text{Efficiency of B} = \frac{72}{24} = 3 \text{ unit}$$

Together they can fill in 1 min = 7 units

The tank is filled in 12 units

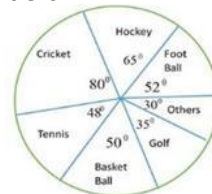
Then A worked for whole 12 minutes ;

Units filled by A = $12 \times 4 = 48$ units

Units filled by B = $72 - 48 = 24$ units

$$\text{B can fill it in} = \frac{24}{3} = 8 \text{ min}$$

31. The pie-chart given here shows the country's expenditure on various sports during a particular year. Study the pie-chart and answer the question given below.



The expenditure on hockey is what percent more than that of basketball?

- A. 40%
- B. 25%
- C. 30%
- D. 35%

Ans. C

Sol.

The expenditure on hockey = 65°

The expenditure on basketball = 50°

$$\frac{\text{Required}}{50} \times 100 = \frac{\text{Percentage}}{50} \times 100 = 30\%$$

32. In a ΔABC , $\tan A + \tan B + \tan C = 10$ and $\tan A \tan B = 7$, then ΔABC is:

- A. Right Angle Triangle
- B. Obtuse Angle Triangle
- C. Acute Angle Triangle
- D. Equilateral Triangle

Ans. C

Sol.

We know that if- $(A + B + C = 180^\circ)$

Then- $\tan A + \tan B + \tan C = \tan A \tan B \tan C$

$$7 \times \tan C = 10$$

$$\tan C = 10/7$$

So, $C \in (0-90^\circ)$ or $(180^\circ - 270^\circ)$ (Not possible)

So, C is an acute angle.

Now, $\tan A \tan B = 10$

There are two cases possible, $\tan A$ and $\tan B$ both are either positive or negative
 First Case: both are positive, then A and B both belongs to first quadrant and are acute.



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Second Case: both are negative, then A and B both are greater than 90° and less than 180° , but that is not possible for a triangle.

Hence option C is correct.

33. If r is the remainder when each of 4749, 5601 and 7092 is divided by the greatest possible number $d(>1)$, then the value of $(d + r)$ will be:

- A. 276
- B. 282
- C. 298
- D. 271

Ans. A

Sol.

Greatest possible number = HCF

When numbers 4749, 5601 are subtracted = 852

When 5601 and 7092 are subtracted = 1491

Again difference of 1491 and 852 = 639

But 639 does not divide 852 and 1491 so

Reducing the number = 213

It divides both 852 and 1491 so we have 213 as the HCF of 4749, 5601 and 7092 .

$\Rightarrow d = 213$

Remainder left when 213 divides 4749, 5601 and 7092 = 63

So $d + r = 213 + 63 = 276$

34. The value of $9 \times [(9 - 4) \div \{(8 \div 8 \text{ of } 4) + (4 \div 4 \text{ of } 2)\}]$ is:

- A. $\frac{15}{4}$
- B. 20
- C. $\frac{15}{7}$
- D. 60

Ans. D

Sol.

$$9 \times [(9 - 4) \div \{(8 \div 8 \text{ of } 4) + (4 \div 4 \text{ of } 2)\}]$$

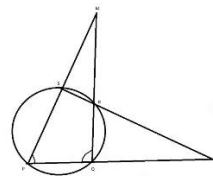
$$= 9 \times [(9 - 4) \div \{\frac{1}{4} + \frac{1}{2}\}]$$

$$= 9 \times [5 \div \frac{3}{4}]$$

$$= 9 \times \frac{20}{3}$$

$$= 60$$

35. In the given figure $\angle P = 60^\circ$ & $\angle PQR = 70^\circ$, Find $\angle QOR$?



A. 10°

B. 60°

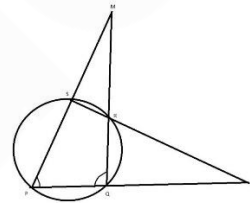
C. 70°

D. 30°

Ans. A

Sol.

Given that, $\angle P = 60^\circ$ & $\angle PQR = 70^\circ$



In cyclic quadrilateral PQRS,

$\angle PQR + \angle PSR = 180^\circ$ (opposite angles of cyclic quadrilateral are 180°)

$$\Rightarrow \angle PSR = 180^\circ - 70^\circ = 110^\circ$$

In triangle POS,

$$\angle POS + \angle SPO + \angle PSO = 180^\circ$$

$$\angle POS = 180^\circ - (\angle SPO + \angle PSO) = 180^\circ - (110^\circ) - (60^\circ) = 10^\circ$$



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