

Lockdown 4.0 Study Plan

Day 7



1. The International Committee of the Red Cross is headquartered in which city?
A. Zurich, Switzerland
B. Geneva, Switzerland
C. London, UK
D. None of these
2. When a planet moves around the sun the necessary centripetal is provided by
A. Gravitational force
B. Magnetic give
C. Frictional force
D. Electrostatic force
3. Which one of the following is not a sedimentary rock?
A. Tillite
B. Limestone
C. Marble
D. Shale
4. Snow Leopard is a state animal of which state?
A. Jammu and Kashmir
B. Arunachal Pradesh
C. Himachal Pradesh
D. Uttrakhand
5. Sal and lotus are state tree and flower of which of the following state?
A. Bihar
B. Jharkhand
C. Kerala
D. Madhya Pradesh
6. Global Hunger Index is released by?
A. IFPRI
B. WIPO
C. IEP
D. ILO
7. Which type of clouds is responsible for thunders?
A. Cirrus
B. Nimbostratus
C. Stratus
D. Cumulonimbus
8. Which is the most saline ocean in the world?
A. Atlantic Ocean
B. Pacific Ocean
C. Indian Ocean

- D. Arctic Ocean
9. Which is the innermost layer of fruit's pericarp?
A. Endocarp
B. Mesocarp
C. Exocarp
D. Embryo
10. In January 2020, Punjab government has approved _____ for the rejuvenation of highly polluting Budah Nallah at Ludhiana.
A. ₹650 crore
B. ₹580 crore
C. ₹787 crore
D. ₹980 crore

Rewrite the sentence in active voice.

11. By whom was this work done?
A. Who had done this work?
B. Who did this work?
C. Who has done this work?
D. Who does this work?

Choose from the four options, the word that best defines/substitutes the given phrase.

12. "To express your thoughts clearly in words"
A. Articulate
B. Archive
C. Ambivalent
D. Equivocal

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.

13. (P) People have been eating asparagus
(Q) Called garden asparagus
(R) As a vegetable since ancient times
(S) The vegetable is also
A. PRSQ
B. QPRS
C. SPQR
D. RSQP

Choose the best synonym of the given word from the options given below.

14. CONGENIAL
A. Cordial



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- B. Harsh
- C. Hateful
- D. Unfriendly

15. **Select the INCORRECTLY spelt word.**

- A. jumble
- B. jovial
- C. journey
- D. junior

Select the most appropriate ANTONYM of the given word.

16. LAMENT
- A. bemoan
 - B. appeal
 - C. bleed
 - D. celebrate

Select the most appropriate option to fill in the blank.

17. The mother said to her son, "You always do what you want. Do you always have to be so _____?"

- A. withdrawn
- B. reasoning
- C. awkward
- D. stubborn

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

18. The belief that events are predetermined and therefore cannot be changed

- A. autism
- B. prism
- C. fatalism
- D. chasm

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

19. Now that I having grow old, I often spend a lot of time thinking about my childhood.

- A. No improvement.
- B. has grown older
- C. am growing older
- D. had grown older

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

20. How were they managing the school for one year without a Principal?

- A. How was the school managed for one year without a Principal?
- B. How was the school being managed for one year without a Principal?
- C. How was the Principal managed for one year without a School?
- D. How was the Principal being managed for one year without a School?

21. Select that option that is related to the third number in the same way as the second number is related to the first number.

144 : 81 : 169 : ?

- A. 4
- B. 225
- C. 49
- D. 256

22. Which letter—cluster will replace the question mark (?) in the following series? HQCF, MVHK, JSEH, OXLM, ?

- A. FTRD
- B. LUGJ
- C. MKOP
- D. SWQ

23. Select the correct alternative to indicate the arrangement of the following words in a logical and meaningful order.

- 1) Sale
 - 2) Recipe
 - 3) Meat
 - 4) Goat
 - 5) Earn
- A. 4,1,2,3,5
 - B. 4,2,3,1,5
 - C. 5,3,2,1,4
 - D. 4,3,2,1,5

24. In a code language. AMENDMENT is written as DNEMATNEM. How will RAJYASABA be written as in that language?

- A. ABASYJARA
- B. BASAYJARA
- C. ABASAYJAR
- D. AYJARABAS



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25. Three of the following four word-pairs are alike in a certain way and one is different. Find the odd one out.

- A. Fish : Shoal
- B. Artist : Troupe
- C. Insect : Larva
- D. Bees : Swarm

26. The graph of the equation $2x + 3y - 11$ and $x - 2y + 12 = 0$ intersects at $P(x_1, y_1)$ and the graph of the equation $x - 2y + 12 = 0$ intersects the x-axis at $Q(x_2, y_2)$. What is the value of $(x_1 - x_2 + y_1 + y_2)$?

- A. 15
- B. -9
- C. 13
- D. -11

27. If $\frac{1 + \sin \theta}{1 - \sin \theta} = \frac{p^2}{q^2}$, then $\sec \theta$ is equal to :

- A. $\frac{2p^2q^2}{p^2 + q^2}$
- B. $\frac{1}{2} \left(\frac{q}{p} + \frac{p}{q} \right)$
- C. $\frac{1}{p^2} + \frac{1}{q^2}$
- D. $\frac{p^2q^2}{p^2 + q^2}$

28. In ΔABC , the medians AD, BE and CF meet at O. what is the ratio of the area of ΔABD to the area of ΔAOE ?

Note : For this question, discrepancy is found in question/answer. Full Marks is being awarded to all candidates.

- A. 2 : 1
- B. 5 : 2
- C. 3 : 1
- D. 3 : 2

29. If the curved surface area of a solid cylinder is one-third of its total surface area, then what is the ratio of its diameter to its height?

- A. 2 : 1
- B. 4 : 1
- C. 5 : 2
- D. 1 : 1

30. Gaurav and Bhavya together can do a work in 6 days. Bhavya and Lokesh can

finish the same work $\frac{60}{7}$ days. Gaurav starts the work and worked for 3 days. Then Bhavya and Lokesh finished the work in 6 days. Find the difference of days in which Lokesh and Gaurav can alone complete the job.

- A. 5
- B. 7
- C. 9
- D. 10



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###ANSWERS###

1. Ans. B.

* The International Committee of the Red Cross (ICRC) is a **humanitarian institution**.

* It is a **three-time Nobel Prize Laureate** (1917, 1944, and 1963).

* It is headquartered in **Geneva, Switzerland**.

* It was formed on **17th February, 1863**.

* The ICRC is part of the International Red Cross and Red Crescent Movement.

* The original motto of the International Committee of the Red Cross was "Inter Arma Caritas" ("Amidst War, Charity").

2. Ans. A.

3. Ans. C.

• **Marble is not a sedimentary rock**; it is a **metamorphic rock**.

• Major sedimentary rocks and their respective metamorphic rocks are-

1) Shale – Schist

2) Sandstone – Quartzite

3) Clay, Shale – Phyllite

4) Limestone – Marble

• Metamorphic rocks are formed when igneous or sedimentary rocks further go on high temperature and pressure conditions.

4. Ans. C.

Snow Leopard is state animal of **Himachal Pradesh**.

• The Government of India has launched the **First National Protocol on Snow Leopard Population Assessment in Oct, 2019**.

• Snow leopards are categorized as **'Vulnerable'** by IUCN.

• In India it is found in Ladakh, Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Sikkim, and Arunachal Pradesh.

5. Ans. B.

For Jharkhand State-

Lotus – State Flower

Sal – State Tree

Koel – State Bird

Elephant – State Animal

Though Lotus is also state flower of Haryana and Orissa.

But state tree of **Haryana is Peepal** and of **Orissa is Banyan**.

6. Ans. A.

The Global Hunger Index is released by International Food Policy Research Institute (**IFPRI**).

• **India was ranked at 102nd position** out of 117 countries in 2019 Global Hunger Index.

• The report is based on four indicator- undernourishment, child stunting, child wasting, and child mortality.

• Report focused on highest child wasting rate at 20.8%.

7. Ans. D.

• **Cumulonimbus clouds are responsible for Thunders**.

• Lightning is caused in these clouds by ionized droplets in the clouds rubbing against each other. The static charge built up creates lightning.

• Cumulonimbus clouds need warm and humid conditions to form. They are also known as **thunderheads** due to their unique **mushroom shape**.

8. 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.

• The data shows that the average ocean salinity is 35 grams per kilogram.

• Pacific is the second most saline ocean in the world.

9. Ans. A.

• Endocarp is the innermost layer of fruit's pericarp.

• The fruit pericarp has three layers which are as follow-

A) **Exocarp**- It is the outermost layer which is formed from the outer layer or the epidermis

B) **Mesocarp**- Is the second or the middle layer which is often juicy and varies in thickness in different fruits

C) **Endocarp**- It is the innermost layer and also is different in different kinds of fruits

10. Ans. A.



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*** In January 2020, the Punjab state government has approved ₹650 crore for the rejuvenation of highly polluting Budah Nallah at Ludhiana.**

* Out of the total approved amount Rs.342 crore will be contributed by the state government, Rs.208 crore will be contributed by the government of India and Rs.100 crore by the private operator.

* Budha Nallah or Budha Nala is a seasonal water stream, which runs through the Malwa region of Punjab.

11. Ans. B.

The rules for converting passive to active voice are as follows:

1. Identify the subject of the sentence - who is doing an action?

2. Rewrite the sentence so the subject is performing the action.

Therefore, the sentence in active voice will be option B i.e. Who did this work?

12. Ans. A.

The meanings of the words are:

Articulate: having or showing the ability to speak fluently and coherently.

Archive: a collection of historical documents or records providing information about a place, institution, or group of people.

Ambivalent: having mixed feelings or contradictory ideas about something or someone.

Equivocal: open to more than one interpretation; ambiguous.

Hence, option A is the correct answer.

13. Ans. A.

The sentence should begin with the segment R as it introduces the subject of the sentence i.e. 'asparagus'. Out of the given options, only option A contains P as the starting segment, thereby, making it the correct answer.

14. Ans. A.

The meanings of the words are:

Congenial: (of a person) pleasing or liked on account of having qualities or interests that are similar to one's own.

Cordial: warm and friendly.

Harsh: unpleasantly rough or jarring to the senses.

Hateful: arousing, deserving of, or filled with hatred.

Unfriendly: not friendly.

Hence, option A is the correct answer.

15. Ans. C.

The incorrect spelling is "journy". The correct word should be "journey". So, C is the right answer.

16. Ans. D.

Let's first learn the meanings of the words:

Lament = a passionate expression of grief or sorrow.

Bemoan = express discontent or sorrow over (something).

Appeal = make a serious, urgent, or heartfelt request.

Hence, option D is the correct answer.

17. Ans. D.

Stubborn means not responding to treatment or inflexible and therefore it the appropriate word that will come in the place of the blank. Hence, option D is the correct answer.

18. Ans. C.

Fatalism- The belief that events are predetermined and therefore cannot be changed

Autism- a disorder where communication is hampered.

Chasm- a deep opening on earth's surface

Prism- a polyhedron

Therefore, option C is the correct choice.

19. Ans. C.

The sentence is in present continuous tense. I will be followed by auxiliary verb 'am' and verb 'grow' will be in -ing form. Comparative degree of 'old' will be used to show the progress. Hence, we will replace the underlined segment with option c to make it grammatically correct and contextually meaningful. Hence, option c is the correct answer.

20. Ans. B.

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

Active: How + were + Subject + verb (-ing form) + object...

Passive: How + Was/Were + Object + being + verb (passive form) + by + subject...

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



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managed for one year without a Principal?’

Hence, option B is the correct choice.

21. Ans. D.

Here we can see that second no is the square of the digit sum of the first on.

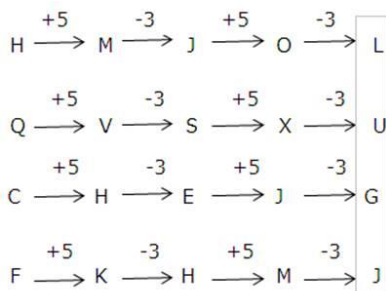
$$1+4+4 = 9, 9^2 = 81$$

Therefore $1+6+9 = 16, 16^2 = 256$

Hence, option (D) is the correct answer.

22. Ans. B.

Pattern is-



Hence, the correct answer is option B.

23. Ans. D.

Correct order is-

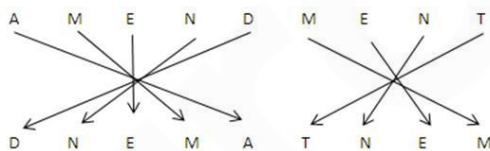
- 4) Goat
- 3) Meat
- 2) Recipe
- 1) Sale
- 5) Earn

Correct order is- 4,3,2,1,5

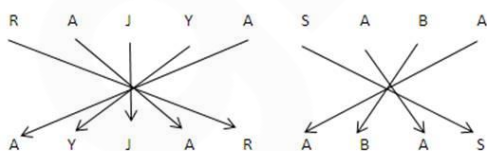
Hence, the correct answer is option D.

24. Ans. D.

As,



Similarly,



Hence, the correct answer is option D.

25. Ans. C.

Except Insect(Animal) : Larva(Younger One), all show relationship- Individual: Group

Hence, the correct answer is option C.

26. Ans. A.

$x - 2y + 12 = 0$ intersect at x-axis

$$y_2 = 0$$

$$x = -12 = x_2$$

$$2x + 3y = 11 \dots\dots (i)$$

$$x - 2y = -12 \dots\dots (ii)$$

After solving, we get-

$$P(x_1, y_1) = (-2, 5)$$

$$x_1 - x_2 + y_1 + y_2 = -2 + 12 + 5 + 0 = 15$$

27. Ans. B.

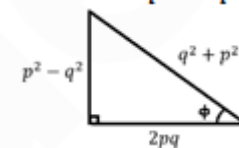
$$\frac{1 + \sin \phi}{1 - \sin \phi} = \frac{p^2}{q^2}$$

Applying C&D rule

$$\frac{1 + \sin \phi - 1 + \sin \phi}{1 - \sin \phi + 1 + \sin \phi} = \frac{p^2 - q^2}{q^2 + p^2}$$

$$\frac{2 \sin \phi}{2} = \frac{p^2 - q^2}{q^2 + p^2}$$

$$\sin \phi = \frac{p^2 - q^2}{q^2 + p^2}$$

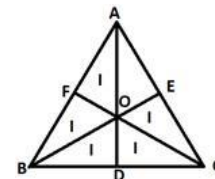


Required -

$$\sec \phi = \frac{p^2 + q^2}{2pq}$$

$$= \frac{1}{2} \left[\frac{p}{q} + \frac{q}{p} \right]$$

28. Ans. C.



O is centroid.

Therefore, the area of all triangles should be equal.

Required -

$$\frac{\text{Area of } \triangle ABD}{\text{Area of } \triangle AOE} = \frac{3}{1}$$

29. Ans. B.

Curved surface area of cylinder : Total surface area of cylinder

$$= 2\pi rh : 2\pi r(h + r)$$

$$= h : h + r$$

$$= 1 : 3$$

$$h = 1$$

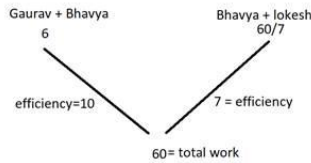
$$h + r = 3$$

$$r = 3 - 1 = 2$$

Diameter = $2x = 2 \times 2 = 4$

Required $\Rightarrow d : h = 4 : 1$

30. Ans. D.



Now efficiency of Lokesh and Bhavya together = 7

Work done by lokesh and bhavya together in 6 days = $7 \times 6 = 42$

Remaining work = $60 - 42 = 18$ and this work is done by Gaurav in 3 days

So, work done by Gaurav in 3 days = 18
work done by Gaurav in 1 days (efficiency of Gaurav) = 6

Time taken by Gaurav to do complete work alone = $\frac{60}{6} = 10$ days

So, efficiency of Bhavya = $10 - 6 = 4$

efficiency of Lokesh = $7 - 4 = 3$

Time taken by Lokesh to do complete work alone = $\frac{60}{3} = 20$ days

difference of days in which Lokesh and Gaurav can alone complete the job = $20 - 10 = 10$ days



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