

Lockdown 4.0 PDF

Day 2



1. How does a moss plant reproduce?

- A. Seeds
- B. Spores
- C. Stomata
- D. None of above

Ans. B

Sol. **Mosses reproduce** by spores, which are analogous to the flowering plant's seed; however, **moss** spores are single celled and more primitive than the seed. Spores are housed in the brown capsule that sits on the seta. Pieces of the **moss** body can break off, move by wind or water, and start a new plant if moisture permits.

2. Which vitamin is synthesized in our colon by the bacteria?

- A. Vitamin A
- B. Vitamin B12
- C. Vitamin K
- D. Vitamin B

Ans. C

Sol. Vitamin K is synthesized in our colon by the bacteria. The plant form of vitamin K is called phyloquinone. Broccoli and Spinach are found in cruciferous and dark green leafy vegetables. In turn limits the absorption of vitamin K the fat malabsorption limits bile production. The vitamin K destroys an antibiotic which is produced bacteria in the intestine. It has been estimated that up to half of the daily **Vitamin K requirement** is provided by gut bacteria

3. Which part of a cell transmits the coded information from one generation to other?

- A. Centrosome
- B. Chromosome
- C. Ribosome
- D. Lysosome

Ans. B

Sol. Chromosome is a thread like structure found in the nucleus of a cell. Chromosome was named by Waldeyer in 1888, which transmits coded information from one generation to other.

A Bead like structure found on chromosome is called *gene*. Genes are made up of DNA which is the carrier of

genetic information from generation to generation.

4. When the position of object in convex lens is at infinity, the size of image will be

- A. Highly diminished
- B. Of same size
- C. Highly enlarged
- D. Little diminished

Ans. A

Sol. Convex lens converge parallel rays coming from object at infinity and a highly diminished - point sized, real and inverted image is formed at principal focus.

5. Blue paper will appear ____ in green light & ____ in red light.

- A. Black, Black
- B. Blue, Black
- C. Black, Green
- D. Green, Black

Ans. A

Sol.

- Blue paper will appear Black in green light & Black in red light.
- As the colour of a body is the colour of light it reflects.
- It will appear Black as it will absorb all the light incident over it and doesn't reflect anything.

6. Isogonic lines are the lines that join the places of same

- A. Horizontal component
- B. Declination
- C. Pressure
- D. Temperature

Ans. B

Sol. • **Isogonic** lines are the lines that join the places of **same declination**.

- The lines that join the places of same horizontal component are called isodynamic lines.
- The lines that join the places of same pressure are called isobars.
- The lines that join the places of same temperature are called Isotherms.

7. What is the common name of Sodium Bicarbonate?

- A. Baking Soda
- B. Washing Powder



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- C. Plaster of Paris
- D. Fly Ash

Ans. A

Sol. Baking Soda is the common name of Sodium Bicarbonate with its chemical formula NaHCO_3 . It is a crystalline white solid that is salty and alkaline. It is used for cooking purpose, pest control and as the fire extinguisher.

8. Which of the following is an ore of iron?

- A. Dolomite
- B. Epsom Salt
- C. Siderite
- D. Galena

Ans. C

Sol. Siderite is an ore of iron. It contains around 50% iron carbonate, followed by zinc and magnesium. It is lustrous and hard found in hydrothermal veins and sedimentary rocks at shallow depths.

9. What are the main components of Brass Alloy?

- A. Copper and Zinc
- B. Copper and Strontium
- C. Copper, Zinc and Nickel
- D. Copper and Nickel

Ans. A

Sol. Copper and zinc are the main components of Brass Alloy. It is a substitutional alloy with strength, ductility, wear-resistance, hardness, colour, antimicrobial, electrical and thermal conductivity, and corrosion resistance. It is used in musical instruments, wax statues.

10. Sudhakar newspaper was started by?

- A. GG Agarkar
- B. MG Ranade
- C. Gopalhari Deshmukh
- D. Jyotiba Phule

Ans. A

Sol.

Gopal Ganesh Agarkar started the newspaper Sudhakar in 1888.

- Gopal Ganesh Agarkar an eminent socio-religious reformer of 19th century.
- His life was a continuous battle for social reforms like the elevation of the status of women and the elimination of the caste system.

- He was also **co-founder** of **New English School and Deccan Education Society**.

11. In the following question, each 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.

King penguins (P)/ are active throughout (Q)/ the long summer days. (R)/ No error (S)

- A. P
- B. Q
- C. R
- D. S

Ans. D

Sol.

The sentence is grammatically correct. Hence, option D is the correct answer.

12. In the sentence, identify the segment which contains the grammatical error.

Suresh has never encouraged nor condoned violence.

- A. Suresh has
- B. never
- C. encouraged nor
- D. condoned violence

Ans. B

Sol.

Neither is used in the negative sense, when you're presenting things that aren't true or valid. Neither...nor gives a negative meaning to verbs.

Hence, 'never' should be replaced with 'neither' to form a grammatically correct sentence.

Therefore, option B is the correct answer.

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

DISSEMINATE

- A. Collect
- B. Conceal
- C. Hide
- D. Disperse

Ans. D

Sol.

The meanings of the words are:



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Disseminate: spread (something, especially information) widely.

Collect: bring or gather together (a number of things).

Conceal: not allow to be seen; hide.

Hide: put or keep out of sight.

Disperse: distribute or spread over a wide area.

Hence, option D is the correct answer.

14. Complete the sentence with the most appropriate word.

I always arrive to class twenty minutes so that I have time to prepare.

A. Late

B. Early

C. Later

D. Behind time

Ans. B

Sol.

The adverb 'early' is the apt fit for the blank as it means 'before the usual or expected time'. Hence, option B is the correct answer.

15. Complete the sentence with the most appropriate word.

Students are not expected to leave without _____.

A. Tolerance

B. Indulgence

C. Permission

D. Freedom

Ans. C

Sol.

The students are not allowed to leave without authorization. 'Permission' meaning 'the action of officially allowing someone to do a particular thing; consent or authorization' is the apt fit for the blank.

Hence, option C is the correct answer.

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

The doctor who treats gums A. periodontist

B. orthodontist

C. endodontist

D. chiroprapist

Ans. A

Sol.

Periodontist: A dentist specializing in diseases of the gums and other structure surrounding the teeth

Orthodontist: A dentist specializing in the prevention or correction of irregularities of the teeth

Endodontist: A dentist specializing in diseases of the dental pulp and nerve

Chiropodist: A specialist in care for the feet

Hence, option A is the correct answer.

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

Study of physiology and anatomy of body

A. graphology

B. genetics

C. somatology

D. gerontology

Ans. C

Sol.

Graphology: The study of handwriting (especially as an indicator of the writer's character or disposition)

Genetics: The branch of biology that studies heredity and variation in organisms

Somatology: The study or science of the human body as a branch of anthropology

Gerontology: The branch of medical science that deals with diseases and problems specific to old people

Hence, option C is the correct answer.

18. **Select the INCORRECTLY spelt word.**

A. jumble

B. jovial

C. journy

D. junior

Ans. C

Sol.

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

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

Our PM is received with open arms wherever he goes.

A. Honourably

B. Promptly



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- C. Warmly
D. Harmoniously

Ans. C

Sol.

“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.

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

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

Ans. A

Sol.

“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.

21. Four words have been given, out of which three are alike in some manner and one is different. Select the odd word.

- A. Volume
B. Distance
C. Gallon
D. Weight

Ans. C

Sol.

Only gallon is a unit.

The gallon is a unit of measurement for volume and fluid capacity.

Hence, option C is the correct answer.

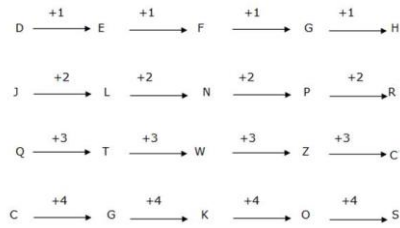
22. Select the letter-cluster that can replace the question mark (?) in the following series.

DJQC, ELTG, FNWK, GPZO, ?

- A. HRCS
B. HQCT
C. GRDS
D. HRBU

Ans. A

Sol.



Hence, option A is the correct answer.

23. Which two signs should be interchanged to make the given equation correct?

$$14 \times 3 \div 27 + 54 - 9 = 21$$

- A. \div and $-$
B. \times and $-$
C. \times and \div
D. $+$ and $-$

Ans. A

Sol.

After interchanging the sign and numbers:

$$14 \times 3 - 27 + 54 \div 9 = 21$$

$$14 \times 3 - 27 + 6$$

$$42 - 21$$

$$21 = 21 \text{ (correct)}$$

As, we found the correct answer, so no need to check more options.

Hence, the correct option is A.

24. In a certain code language, 'SPECIAL' is coded as '20176410213'. How will 'MACHINE' be coded in that language?

- A. 1424910156
B. 1524910146
C. 1424901056
D. 1324810155

Ans. A

Sol.

The pattern is: place value of letter + 1

$$S = 19 + 1 = 20$$

$$P = 16 + 1 = 17$$

$$E = 5 + 1 = 6$$

$$C = 3 + 1 = 4$$

$$I = 9 + 1 = 10$$

$$A = 1 + 1 = 2$$

$$L = 12 + 1 = 13$$

Similarly,

$$M = 13 + 1 = 14$$

$$A = 1 + 1 = 2$$

$$C = 3 + 1 = 4$$

$$H = 8 + 1 = 9$$

$$I = 9 + 1 = 10$$

$$N = 14 + 1 = 15$$



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$$E = 5 + 1 = 6$$

Hence, the correct option is A.

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

- 1) Casting
 - 2) Acting
 - 3) Film Shooting
 - 4) Final Film
 - 5) Editing
- A. 4, 3, 5, 1, 2
 B. 1, 2, 3, 5, 4
 C. 3, 2, 1, 4, 5
 D. 3, 1, 2, 5, 4

Ans. B

Sol.

The logical order of the words is:

- 1) Casting
- 2) Acting
- 3) Film Shooting
- 5) Editing
- 4) Final Film

Hence, the correct option is A.

26. A train X travelling at 60 km/h overtakes another train Y, 225 m long, and completely passes it in 72 seconds. If the trains had been going in opposite directions, they would have passed each other in 18 seconds. The length (in m) of X and the speed (in km/h) of Y are, respectively:

- A. 255 and 40
 B. 245 and 54
 C. 255 and 36
 D. 245 and 45

Ans. C

Sol.

Let the speed be x and y.

And the length of train x = L

When moving in the same direction then relative speed = x - y

When moving in the opposite direction then relative speed = x + y

In first case,

$$\frac{L + 225}{(60 - y) \times \frac{5}{18}} = 72$$

$$L + 225 = (240 - 4y) \times 5$$

$$L + 225 = 1200 - 20y \dots(i)$$

In second case,

$$\frac{L + 225}{(60 + y) \times \frac{5}{18}} = 18$$

$$L + 225 = 300 + 5y \dots(ii)$$

From equations (i) and (ii),

$$1200 - 20y = 300 + 5y$$

$$25y = 900$$

$$y = 36$$

So, for y = 36 from equation (i) we have,

$$L + 225 = 1200 - 20y$$

$$L + 225 = 1200 - 720$$

$$L = 255.$$

27. Find the height of a cuboid whose volume is 330 cm³ and base area is 15 cm²?

- A. 24 cm
 B. 21 cm
 C. 22 cm
 D. 19 cm

Ans. C

Sol.

Volume of Cuboid = base Area × height

$$300 = 15 \times h$$

$$H = 22\text{cm}.$$

28. Amit travelled a distance of 50 km in 9 hours. He travelled partly on foot at 5 km/h and partly by bicycle at 10 km/h. The distance travelled on the bicycle is:

- A. 10 km
 B. 12 km
 C. 13 km
 D. 11 km

Ans. A

Sol.

Let he cover x km at 5 km/h.

A.T.Q.

$$\frac{x}{5} + \frac{50 - x}{10} = 9$$

$$10x + 250 - 5x = 450$$

$$5x = 200$$

$$x = 40$$

So, he covers 10 km at 10 kmph.

29. A certain sum amounts to Rs. 280900 in 2 years at 6% per annum, interest compounded annually. The sum is:

- A. Rs. 350000
 B. Rs. 550000
 C. Rs. 250000
 D. Rs. 200000



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Ans. C

Sol.

Effective % rate of 6% in 2 years = $6 + 6$

$$\frac{6 \times 6}{+ 100}$$
$$= 12.36$$

A.T.Q.

112.36% of P = 280900

$P = 28090000/112.36$

P = Rs. 250000.

30. If $x + 3y + 2 = 0$ then value of $x^3 + 27y^3 + 8 - 18xy$ is

A. -2

B. 1

C. 2

D. 0

Ans. D

Sol.

Here $x + 3y + 2 = 0$

If we substitute the value of $x = 1$ and $y = -1$ then

The value of $x + 3y + 2$ becomes 0

Hence by substituting the value in the given equation ;

We have $x^3 + 27y^3 + 8 - 18xy = (1)^3 +$

$27(-1)^3 + 8 - 18(1)(-1)$

$= 1 - 27 + 8 + 18$

$= 0$



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