

Lockdown 2.0 Study Plan Day 5: Download PDF



1. Shigellosis is a type of _____.
A. Bacterial infection
B. Otitis infection
C. Urinary tract infection
D. None of the above
2. Pyorrhoea is a disease of the
A. Digestive system
B. Gums
C. Liver
D. Pancreas
3. Which organ is affected by Pneumonia disease?
A. Skin and intestine
B. Urinary tract
C. Liver
D. Lungs
4. Jaundice is a disease which affects
A. Heart
B. Liver
C. Spleen
D. Gall bladder
5. Meningitis is a disease which affects the
A. Kidneys
B. Liver
C. Heart
D. Brain
6. Asthma is a disease of
A. Kidney
B. Muscle
C. Lungs
D. Heart
7. 'Asthma' disease is caused by which fungi?
A. Candida albicans
B. Aspergillus Fumigates
C. Tenia pedes
D. Sporothrix

Directions: In each of the following questions select the related word/letters/number from the given alternatives.

8. Eye: Cataract :: Skin ?
A. Pyorrhoea

- B. Sinusitis
C. Eczema
D. Trachoma
9. The diseases caused by protozoa are –
i) Typhoid
ii) Amoebic dysentery
iii) Influenza
iv) Malaria
A. i, ii
B. i, iv
C. ii, iv
D. iii, iv

10. There are approximately _____ muscles in human body.
A. 200
B. 350
C. 500
D. 640

11. Select the most appropriate word to fill in the blank.
She _____ on paying the bill at the restaurant.
A. requested
B. insisted
C. offered
D. suggested

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

12. The ship sailed smoothly owing to _____ winds.
A. tempestuous
B. boisterous
C. favourable
D. turbulent

Select the most appropriate option to fill in the blank.

13. We must _____ them of the dangers that may be involved.
A. apprise
B. behold
C. concur
D. climb

Select the most appropriate option to fill in the blank.



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14. She tried to _____ her disappointment with a joke.
A. adapt
B. dissemble
C. operate
D. deign

In this section each item consists of six sentences of a passage. The first and the sixth sentences are given in the beginning as S1 and S6. The middle four sentences in each have been jumbled up and labelled P, Q, R and S. You are required to find the proper sequence of the four sentences and mark your response accordingly on the Answer Sheet.

15. S1. Once upon a time, there lived a huge elephant in a jungle.
P. In the same jungle, there lived a family of ants.
Q. He was arrogant and always underestimated animals smaller than him.
R. One day, when the ant family was coming back collecting their food, the elephant sprayed a trunk full of water on them.
S. Every morning, they would go in search of food and on their way back, they would always see the elephant troubling other animals.
S6. You shouldn't hurt others like this" cried one of the ants.
A. PQRS
B. RSQP
C. QPSR
D. SPQR

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

16. The gas is being seeping out of the rocks.
A. is seeping
B. is seep
C. was being seeping
D. No improvement

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

17. Are you having your own transport to go home from work?
A. to go home
B. from work
C. Are you having
D. your own transport

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

18. If the growth of population had been controlled earlier, mankind wouldn't lived in a polluted world now.
A. had been controlled earlier
B. mankind wouldn't lived
C. If the growth of population
D. in a polluted world now

Select the most appropriate ANTONYM of the given word.

19. SOGGY
A. gloomy
B. broken
C. unfit
D. dry

Select the most appropriate ANTONYM of the given word.

20. FRAIL
A. weak
B. fancy
C. robust
D. elaborate

21. A certain amount is divided among Sunita, Amit and Vibha in the ratio of 2 : 3 : 4 . If Vibha gets Rs 14,416, then the total amount is:
A. Rs 16,219
B. Rs 32,436
C. Rs 43,248
D. Rs 3,604

22. Sixteen men can finish a work in 8 days. Eight men and nine women working together can finish the same work in 10 days. In how many days will twenty women finish the same work?
A. 13
B. 12
C. 9



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D. 11

23. The average height of 5 boys is 175 cm. A sixth boy joined the group and the average height of all the boys in the group now increased by one centimeter. The height of the sixth boy is:

- A. 179 cm
- B. 175 cm
- C. 180 cm
- D. 181 cm

24. The angle of elevation of the top of a tree from a point on the ground which is 300 m away from the tree is 30° . When the tree grew up, its angle of elevation of the top of it became 60° from the same point. How much did the tree grow?

- A. 342 m
- B. 364 m
- C. 384 m
- D. 346 m

25. If $\sin\theta - \cos\theta = 0$, $0^\circ < \theta < 90^\circ$, then the value of $\sin^4\theta + \cos^4\theta$ is:

- A. $\frac{1}{3}$
- B. 1
- C. $\frac{1}{2}$
- D. $\frac{1}{4}$

26. If the radius of a right circular cylinder is decreased by 20% while its height is increased by 40%, then the percentage change in its volume will be:

- A. No increase or decrease
- B. 1.04% increase
- C. 10.4% increase
- D. 10.4% decrease

27. The volume of a right pyramid is $45\sqrt{3}$ cm³ and its base is an equilateral triangle with side 6 cm. What is the height (in cm) of the pyramid?

- A. 20
- B. 15
- C. 12

D. 18

28. Curved Surface area of a cylinder having 28 m radius and 11 m height is equal to the area of a square whose side is two times the length of a rectangle. Find the length of the rectangle.

- A. 28 m
- B. 44 m
- C. 7 m
- D. 22 m

29. A shelf of dimension $90 \times 30 \times 60$ cm ($l \times b \times h$) is dedicated for arranging gifts composed of 100 round tiffin boxes of radius 7cm and height 10cm. How many tiffin boxes can be arranged in the shelf if arranged with its base at the bottom.

- A. 72
- B. 8
- C. 0
- D. 5

30. If a, b are positive integers ($b > 1$) such that $a^b = 256$, then find the value of $(b + 3)^{a-1}$

- A. 5^{15}
- B. 343
- C. Both A & B
- D. None of these.

31. In the question two statements are given, followed by two conclusions, I and II. You have to consider the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

Statement 1 : All flowers are leaves.
Statement 2 : Some flowers are plants.
Conclusion I : Some leaves are plants.
Conclusion II : Some plants are flowers.

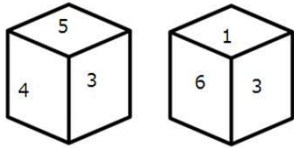
- A. Only conclusion I follows
- B. Only conclusion II follows
- C. Both I and II follow
- D. Neither I nor II follows

32. Two positions of the same dice are shown. Which number will be at the top if '4' is at the bottom?



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- A. 2
- B. 1
- C. 3
- D. 6

33. From the given answer figures, select the one in which the question figure is hidden/embedded.



- A.
- B.
- C.
- D.

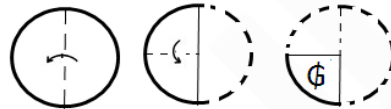
34. If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure?



- A.
- B.

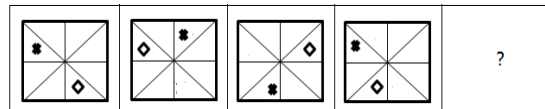
- C.
- D.

35. The sequence of folding a piece of square paper and the manner in which the folded paper has been cut is shown in the figures X, Y and Z. How would this paper look when unfolded?



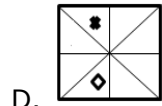
- A.
- B.
- C.
- D.

36. Select the figure that will come next in the following figure series?

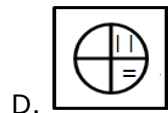
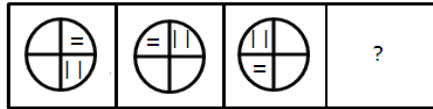


- A.
- B.
- C.

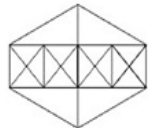
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37. Select the option that will come next in the given series.

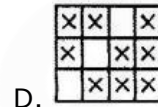
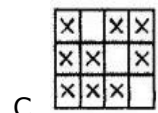
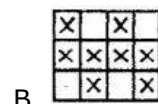
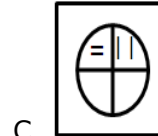
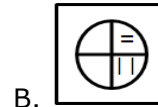
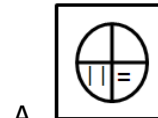
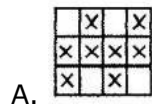
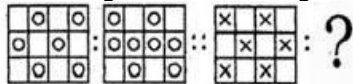


38. How many triangles are there in the given figure?



- A. 38
- B. 44
- C. 46
- D. 54

39. In the following question, select the related figure from the given alternatives.



40. How many triangles are there in the given figure?



- A. 28
- B. 36
- C. 40
- D. 48

###ANSWERS###

1. Ans. A.

Shigellosis is a type of diarrhea caused by a **bacterial infection** with **Shigella**. It's symptoms generally start one to two days after exposure and include diarrhea, fever, abdominal pain, and pain with passing stool. Symptoms typically last five to seven days. Complications can include **post infectious arthritis, sepsis, seizures, and hemolytic uremic syndrome**.

2. Ans. B.

Pyorrhoea is the disease of the gum. It can happen to anyone and is one of the most widely prevalent disease. It affects the membrane surrounding the roots of the teeth and leads to pus formation and loosening of the teeth.

3. Ans. D.

● Pneumonia is an infection in **one or both lungs**.

● It can be caused by bacteria, viruses, or fungi. Bacterial pneumonia is the most common type in adults.

● Pneumonia causes inflammation in the air sacs in your lungs, which are called alveoli. The alveoli fill with fluid or pus, making it difficult to breathe.

4. Ans. B.

Jaundice, also known as icterus, is a yellowish pigmentation of the skin, the conjunctival membranes over the sclera and other mucous membranes caused by high blood bilirubin levels.

5. Ans. D.

The central nervous system is made up of the brain, spinal cord, and nerves. Meningitis is an infection that causes the protective membranes of the nervous system to swell. Inflammation of the brain and spinal cord can affect every part of your body.

6. Ans. C.

During an asthmatic attack constricted bronchioles of lungs make breathing difficult and mucous secretion thickness and increase the muscle constriction.

7. Ans. B.

* Asthma is caused by **Aspergillus Fumigates** fungi.

* Symptoms of Asthma are shortness of breathing, chest tightness or pain, coughing, wheezing etc.

8. Ans. C.

A cataract is an eye disease similarly Eczema is an skin disease.

9. Ans. C.

Typhoid is a bacterial disease while influenza caused by virus.

Amoebic dysentery and Malaria are caused by Protozoa.

10. Ans. D.

● There are approximately 640 muscles in human body and together they make up about 40% of total body mass.

● Hence, option D is correct.

11. Ans. B.

Let's understand the meaning of the given words:

Requested: Asked for

Insisted: Be emphatic or resolute and refuse to budge

Offered: Make available or accessible, provide or furnish

Suggested: Make a proposal, declare a plan for something

Insisted would be the correct word in the given blank.

Hence, option B is the correct answer.

12. Ans. C.

Let's understand the meanings of the given words:

Tempestuous (तूफानी) = very stormy.

Boisterous (प्रचण्ड) = wild or stormy.

Favourable (अनुकूल) = having desirable or positive qualities especially those suitable for a thing specified

Turbulent (उपद्रवी) = moving unsteadily or violently.

The ship sailed smoothly because the winds were in the direction of travel. Therefore, the word "favourable" is the correct word for the blank.

Hence, **option C** is the correct answer.



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13. Ans. A.

The sentence implies that we must inform them about the dangers that may be involved. '**Apprise**' meaning 'inform or tell (someone)' is the apt fit for the blank.

Hence, **option A** is the correct answer.

The meanings of other words are:

Behold: see or observe (someone or something, especially of remarkable or impressive nature).

Concur: be of the same opinion; agree.

Climb: go or come up a (slope or staircase); ascend.

14. Ans. B.

The sentence implies that the subject tried to hide her disappointment with a joke. '**Dissemble**' meaning 'conceal or disguise one's true feelings or beliefs' is the apt fit for the blank.

Hence, **option B** is the correct answer.

The meanings of other words are:

Adapt: make (something) suitable for a new use or purpose; modify.

Operate: (of a person) control the functioning of (a machine, process, or system).

Deign: do something that one considers to be beneath one's dignity.

15. Ans. C.

The sentence Q should follow the sentence S1 since it tells about the elephant introduced in the sentence S1. The sentence P should be the next sentence as it further tells who all lived with him in the jungle. The next sentence should describe about the ants. Hence, the sentence S should follow P since it describes what ants used to do every morning. The sentence S tells that the ants used to see the elephant troubling other animals whenever they used to go in search of food. The sentence R finally tells what happened when the ant family was coming back collecting their food, becoming the final sentence.

Hence, the rearranged order is **option C** i.e. **QPSR**.

16. Ans. A.

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.

17. Ans. C.

This sentence talks about something that is an unchanging situation for which simple present tense should be used. So, "are you having" should be replaced by "do you have". That is why the error is in part C.

18. Ans. B.

Only a bare infinitive (which is infinitive without "to", i.e. V1 form of the verb) can follow a modal verb. Here in option B "lived" is used after a modal verb "would" which is incorrect. It should be replaced with "live". Hence option B is correct.

19. Ans. D.

Let us learn the meanings of following words.

Soggy: wet and soft.

Gloomy: dark or poorly lit, especially so as to appear depressing or frightening.

Broken: (of a person) having given up all hope; despairing.

Unfit: not fit

Dry: free from moisture or liquid; not wet or moist.

The meaning of "dry" is the opposite of "soggy". Therefore D is the right answer.

20. Ans. C.

Let us learn the meanings of following words.

Frail: (of a person) weak and delicate.

Weak: lacking the power to perform physically demanding tasks; having little physical strength or energy.

Fancy: elaborate in structure or decoration.

Robust: strong and healthy; vigorous.

Elaborate: involving many carefully arranged parts or details; detailed and complicated in design and planning.

The meaning of the word "robust" means the opposite of "frail". Therefore C is the correct answer.

21. Ans. B.

Let the amount be 2x, 3x and 4x respectively.



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A.T.Q.

$$4x = 14416$$

$$x = 3604$$

$$\text{then, } (2x + 3x + 4x) = 9x = 9 \times 3604 = \text{Rs. } 32436.$$

22. Ans. B.

$$16M \times 8 = (8M + 9W)10$$

$$64M = 40M + 45W$$

$$24M = 45W$$

$$\frac{M}{W} = \frac{45}{24} = \frac{15}{8}$$

Efficiency of Men = 15 unit

Women = 8 unit

$$\text{Total work} = 16 \times 15 \times 8$$

$$\text{Times taken by 20 women} = \frac{16 \times 15 \times 8}{20 \times 8} = 12 \text{ days.}$$

23. Ans. D.

$$\text{Total height of students} = 175 \times 5$$

$$\text{Total height of 6 students} = 176 \times 6$$

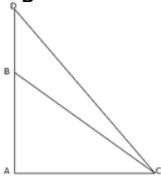
$$\text{Height of 6th student} = 176 \times 6 - 175 \times 5$$

$$= 1056 - 875$$

$$= 181 \text{ cm.}$$

24. Ans. D.

Let AB be the tree and BD be the increased height of the tree.



$$\angle BCA = 30^\circ$$

Here distance AC = 300m

We need to find the value of BD.

By trigonometric ratios we have

$$\frac{AB}{AC} = \frac{AB}{300}$$

$$\tan 30^\circ = \frac{1}{\sqrt{3}} \times 300 = 100\sqrt{3} = AB$$

$$\tan 60^\circ = \frac{AD}{AC} = \frac{AD}{300}$$

$$\text{So ; } \sqrt{3} \times 300 = AD$$

$$BD = AD - AB$$

$$BD = 300\sqrt{3} - 100\sqrt{3} = 200\sqrt{3} \approx 346 \text{ m}$$

25. Ans. C.

$$\text{Here, } \sin\theta - \cos\theta = 0 \Rightarrow \sin\theta = \cos\theta$$

$$\Rightarrow \theta = 45^\circ$$

$$\text{Then } \sin^4\theta + \cos^4\theta = \left(\frac{1}{\sqrt{2}}\right)^4 + \left(\frac{1}{\sqrt{2}}\right)^4 = \frac{1}{4} + \frac{1}{4} = \frac{1}{2}$$

26. Ans. D.

We know that the Volume of cylinder = $\pi r^2 h$

A. T. Q.

When the radius of a right circular cylinder is decreased by 20% while its height is increased by 40%

Hence

$$\text{New Volume} = \pi \times 0.8 \times 0.8 r^2 \times 1.4h = 0.896\pi r^2 h$$

$$\% \text{ change in volume} = \frac{\pi r^2 h(1 - 0.896)}{\pi r^2 h} \times 100 = 10.4\% \text{ decrease}$$

27. Ans. B.

Volume of pyramid

$$= \frac{1}{3} \times \text{base area} \times \text{height}$$

$$45\sqrt{3} = \frac{1}{3} \times \frac{\sqrt{3}}{4} \times 36 \times h$$

$$h = 15 \text{ cm}$$

28. Ans. D.

$$\text{Side of square} = \sqrt{\text{Area of cylinder}} =$$

$$\sqrt{2 \times \frac{22}{7} \times 28 \times 11} = 44 \text{ m}$$

$$\frac{44}{2} = 22 \text{ m}$$

29. Ans. A.

Along the height of shelf 60cm, 6 tiffin boxes can be piled up vertically.

Along the breadth of shelf 30cm, 2 tiffin boxes can be arranged.

Along the length of shelf 90cm, 90%14=6 tiffin boxes can be arranged.

Hence totally $6 \times 2 \times 6 = 72$ boxes can be placed in the shelf.

30. Ans. D.

$$\because a^b = 256 \text{ and } b > 1$$

$$\therefore a^b = 16^2 \text{ or } 4^4 \text{ or } 2^8$$

$$\text{So } a = 16, 4 \text{ or } 2 \text{ and } b = 2, 4 \text{ or } 8$$

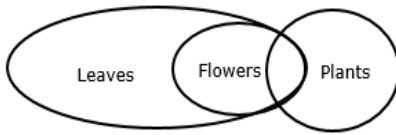


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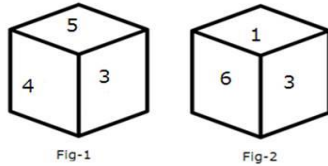
Hence a unique value can't be determined.
31. Ans. C.

The least possible Venn diagram for the given statements is,



Thus both conclusion I and II follows.

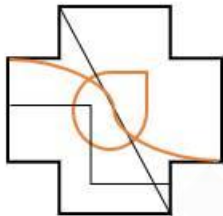
32. Ans. D.



3 is common in fig(1) and fig(2).
Therefore, the sides contain 6, 1, 4 and 5 will be consecutive side face of the 3.
From 6, 1, 4 and 5-
6 will be opposite of 4.
1 will be opposite of 5.
Hence, the correct answer is option D.

33. Ans. D.

After carefully observing the figures given in the question, it is very clear that the question figure is embedded in the answer figure (d). It is shown as given below:

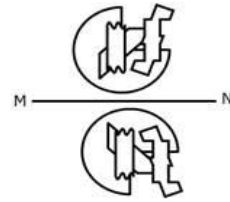


Hence, Option D is the correct answer.

34. Ans. B.

In a plane mirror, a mirror image is a reflected duplication of a figure that appears almost identical, but it is reversed in the direction perpendicular to the mirror surface. As an optical effect, it results from reflection of substances such as a mirror or water.

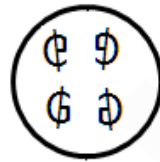
In this question figure, three symbols of infinity given, since, a mirror image of the infinity symbol remains the same.



Hence, the correct option is B.

35. Ans. D.

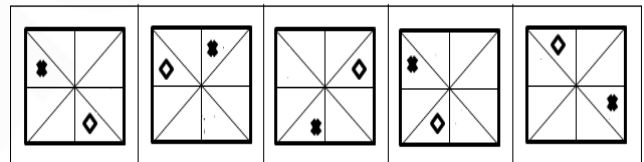
As it is punched in a book-folding manner and then again it gets punched. So, when we open it up there will be figure as shown in option (D).



Hence, option (D) is correct.

36. Ans. C.

Cross symbol moves clock-wise 2 steps and anti-clock-wise 4 steps alternately and square shape moves clock-wise 3 steps.

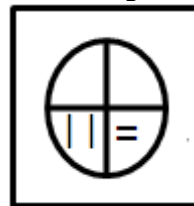


Here, option C is the correct answer.

37. Ans. A.

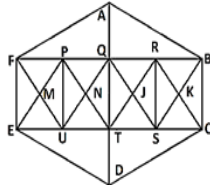
Logic: symbol '=' one place anticlockwise and '||' moves 3 places clockwise.

After carefully observing the figures given in the question, it is very clear that the answer figure (A) will be the next figure.



Hence, the correct answer is option A.

38. Ans. B.



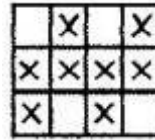
Triangles hidden in the figure are as follows

–
MPF, MUP, MEU, MFE, FPU, PUE, UEF, EFU,
NPQ, NQT, NTU, NUP, PQT, QTU, TUP, UPQ,
JQR, JRS, JST, JTQ, QRS, RST, STQ, TQR,
KRB, KBC, KCS, KSR, RBC, BSC, CSR, SRB,
FUQ, PTR, QSB, CRT, SQU, TPE, ABF, DEC,
AQF, AQB, DTE, DTC

Thus total count of triangles is 44.

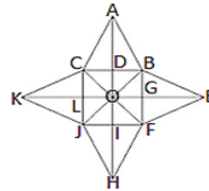
39. Ans. A.

The places of circles in the first pair are following the same rule for X's in the second pair.



Hence, option A is the correct response.

40. Ans. B.



Hidden triangles in the given figure are as follows –

ABC, ABD, ACD, BOC, BOD, COD,
EFB, EGF, EGB, BOF, BOG, GOF,
HJF, HIJ, HIF, JOF, JOI, FOI,
KCJ, KLC, KLJ, COJ, COL, LOJ,
JCB, CBF, BFJ, FJC, ACO, AOB,
EBO, EFO, HFO, HOJ, KJO, KOC,

So total number of triangle is = 36.



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