21-Days study plan
Day-6

1. Who is present prime minister of Australia?
A. Bill Shorten   B. Peter Dutton
C. Scott Morrison   D. Jenny Morrison
Ans. C
Sol.
• **Scott John Morrison** is an Australian politician who is the current Prime Minister of Australia.
• He was first elected to parliament in 2007 and served in cabinet from 2013-18.
• He belongs to Liberal Party.

2. In which district of Tamil Nadu will ISRO set up a second launch port specifically for launching small satellite launch vehicles?
A. Thiruvannamalai   B. Thiruvarur
C. Vellore   D. Thoothukodi
Ans. D
Sol.
• Indian Space Research Organisation (ISRO) will establish a second launch port in **Thoothukodi district in Tamil Nadu** exclusively to launch small satellite launch vehicles.
• It was announced by Chairman of ISRO K. Sivan on 1st January 2020.
• This space center will be established in 2300 acres of land.

3. Recently in Nov 19, The Supreme Court declared which body as public authority under RTI act, 2005?
A. Political Parties
B. Regional Political Parties
C. Office of CJI
D. Office of Prime Minister
Ans. C
Sol.
Recently in November 2019, Supreme Court has ruled that the office of CJI is **a public authority under the RTI act, 2005.**
• A **five-judge Constitution Bench** headed by the then Chief Justice Ranjan Gogoi gave the ruling.
• The verdict stated that- **RTI cannot be used as a tool of surveillance** and that judicial independence must be kept in mind while dealing with transparency.

4. Raja Sansi International Airport is in _____.
A. Amritsar   B. Raipur
C. Udaipur   D. Lucknow
Ans. A
Sol.
• **Raja Sansi International Airport** is in Amritsar, Punjab.
• Now the name of this airport has been changed to "**Sri Guru Ram Das Ji International Airport**".
• It is named after **Guru Ram Das Ji, the fourth Sikh Guru** and the founder of Amritsar city.

5. According to Global Peace index 2019, which one of the following is the most peaceful country?
A. India   B. Indonesia
C. Bhutan   D. Iceland
Ans. D
Sol.
• The 2019 Global Peace index indicates **Iceland, New Zealand, Portugal, Austria, and Denmark** to be the most peaceful countries and **Somalia, Afghanistan, Syria, South Sudan, Yemen, and Iraq** to be the least peaceful.
• The GPI is a report produced by the Institute for Economics & Peace (IEP).
• **India's** rank has slipped five places to **141 among 163 countries** on the Global Peace Index 2019.

6. Which of the following tribe does not belong to Bihar and Jharkhand Area?
A. Asurs   B. Mal Paharia
C. Savar   D. Saharia
Ans. D
Sol.
The Saharia tribe belongs mainly to Rajasthan and also to Madhya Pradesh.
• The Asurs, Mal Paharia and Savar all tribes belong to Jharkhand and Bihar area.
• All the give three groups are Particularly Vulnerable Tribal group, classifies under Ministry of Tribal Affairs.
• Bihar and Jharkhand area contributes 9 Tribal groups as Particularly Vulnerable Tribal Groups.

7. The first complete census in India was held in the year _____.
A. 1881   B. 1873
C. 1891   D. 1885
Ans. A
Sol.
a) The first census in India was held in the year 1881.
b) The census is systematically acquiring and recording information about the members of a given population. This term is used mostly in connection with national population and housing censuses.
c) The next census will be in 2021 as it will be done after ten years.

8. Fill in the blank with the most suitable word.
Rational thinkers are intellectually _____ to those who accept faith without questioning the age-old practices.
A. cultured   B. sophisticated
C. superior   D. modern
Ans. C
Sol. The sentence is of comparative degree as a comparison is being made between different kind of thinkers. Out of the given alternatives, only "superior" is written in comparative form. So, option C is the correct answer. Superior means higher in rank, status, or quality.

9. In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.
The president's coterie of advisers was unable to offer him a _____ to the national problem.
A. solvent   B. solute
C. solution   D. mixture
Ans. C
Sol. Solvent means major component of solution.
Solute means minor component of solution.
Mixture means blend of two or more substance.
Solution means a way to solve a problem.

The sentence talks of a problem which the advisers were unable to solve. Therefore option C is the correct answer.

10. In the following question, a sentence is given with a blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.
Walt Disney failed many times, but learned the right lessons and hence failure was not _____ for him.
A. frustrating   B. celebration
C. argument   D. connector
Ans. A
Sol. Since Walt Disney learnt from failure, it can be said that he did not get frustrated by it. Option B conveys the opposite meaning and the other options are irrelevant here. Thus, option A is the correct answer.

11. In the following question, a sentence is given with a blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.
Common adverse _____ of this medication include, bleeding, nausea and vomiting.
A. affects   B. effect
C. effects   D. affect
Ans. C
Sol. 'Affect' is usually a verb, and it means to impact or change. 'Effect' is usually a noun, an effect is the result of something. The sentence talks about the negative results of some medications. We should use 'effects' since more than one result is mentioned. Therefore, option C is the correct answer.

12. In the following question, a sentence is given with a blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.
Because she had a _____ demeanour, she was a desirable friend.
A. pleasant   B. severe
C. mean   D. nasty
Ans. A
Sol.

Let's understand the meaning of each verb in order to find out which one fits best in the sentence:

Pleasant means giving a sense of happy satisfaction or enjoyment.

Severe means strict or harsh.

Mean means signify.

Nasty means very bad or unpleasant.

Demeanour means a way of looking and behaving. Only a positive demeanour could make someone a desired friend.

Out of all the options mentioned above, only pleasant is a positive quality. So, option A is the correct answer.

13. In the following question, a sentence is given with a blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.
Everyone was pleased to learn the actor would _____ his role as the captivating pirate.

A. reprise   B. rescue
C. save   D. free

Ans. A

Sol. 'Rescue', 'save' and 'free' do not fit the given context with respect to the part following the blank. 'Reprise' means repeat and fits in perfectly. The sentence means that everyone was happy to know that the actor would repeat his role as a pirate.

Hence, option A is correct.

14. In the following question, a sentence is given with a blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.
The shepherd guarded a large _____ of sheep and allowed them to move from pasture to pasture.

A. block   B. culture
C. shoal   D. flock

Ans. D

Sol. The blank should have a word which defines the collective form of sheep i.e. flock. The other words don't fit. Now, let's understand the meanings of each word given in the options:

Block = a large solid piece of hard material, especially rock, stone, or wood

Culture = the characteristics and knowledge of a particular group of people, encompassing language, religion, cuisine, social habits, music and arts

Shoal = a large number of fish swimming together.

Flock = a group of sheep, goats, or birds

As we understand that the noun "flock" is also used for a group of sheep; therefore, it is the correct word for the given blank.

15. In the following question, a sentence is given with a blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.
Due to the security reasons, we were _____ from entering into the cockpit of the plane.

A. denied   B. rejected
C. stopped   D. warned

Ans. C

Sol. Deny means to say that something is not true. Also, it is not followed by the prepostion "from". Hence, it is an incorrect choice.

Rejected makes the sentence contextually incorrect as it is used when a person doesn't qualify for some criterion. It is also not followed by the preposition "from".

Warned from entering doesn't make much sense in security issues.

Stopped fits in the blank grammatically as well as contextually. It can be followed by the preposition "from".

Hence, option C is the correct answer.

16. How many meaningful English words can be formed with the letters 'OLBT' using all the letters but each letter only once in each word?

A. One   B. Two
C. Three   D. Four
E. None of these

Ans. B

Sol. The words formed are: BOLT and BLOT.

Hence, option (B) is the correct response.

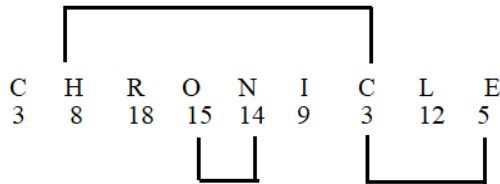17. How many such pairs of letters are there in the word CHRONICLE each of

which has as many letters between them in the word as in the English alphabet?
A. None
B. One
C. Two
D. Three
E. More than three
Ans. D
Sol.

Three combinations are there.

18. How many meaningful English words can be made from the letters IRA, using each letter only once in each word?
A. None
B. One
C. Two
D. Three
E. Four
Ans. B
Sol. Meaning word is AIR.
Hence, only one word can be made.

19. How many such pairs of letters are there in the word RECOVERED, which have as many letters between them in the word as in the English alphabet?
A. Three
B. Four
C. Six
D. Five
Ans. B
Sol.
There are 4 pairs- OR, OR, DE, RV.

Hence, option B is the right answer.

20. If each vowel of the word DEFAULTS is changed to the next letter in the English Language alphabetical series and each consonant are changed to the previous letter in the English Language alphabetical series, how many alphabets will appear twice in the new formation?
A. None
B. One
C. Two
D. Three
E. Four
Ans. A

Sol. Before arrangement
DEFAULTS
After arrangement
CFEBVKSR
No alphabet will appear twice.
Hence, option A is the correct response.

21. How many digits are there in the number 683514 each of which remains the same as when the digits are arranged in ascending order within the number?
A. None
B. One
C. Two
D. Three
Ans. B
Sol.
683**5**14
134**5**68
Only one number 5 is there in the same position after rearrangement.
Hence, option B is the required answer.

22. Given that the ratio of altitudes of two triangles is 4 : 5, ratio of their areas is 3 : 2. The ratio of their corresponding bases is
A. 8:15
B. 15:8
C. 5 : 8
D. 8 : 5
Ans. B

Sol. Area of triangle $= \frac{1}{2} \times$ base $\times$ height $= \frac{1}{2} \times b \times h$

$\therefore$ According to the question,

$$\frac{\frac{1}{2} \times b_1 h}{\frac{1}{2} b_2 h_2} = \frac{3}{2}$$

$$\Rightarrow \frac{b_1}{b_2} \times \frac{4}{5} = \frac{3}{2}$$

$$\Rightarrow \frac{b_1}{b_2} = \frac{3}{2} \times \frac{5}{4} = \frac{15}{8}$$

23. OB and OC are respectively the bisectors of $\angle ABC$ and $\angle ACB$, then $\angle BOC$ is equal to
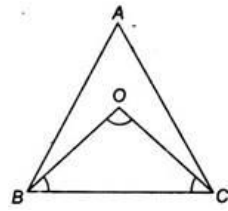
A. $90° - \frac{1}{2} \angle A$
B. $90° + \angle A$
C. $90° + \frac{1}{2} \angle A$
D. $180° - \frac{1}{2} \angle A$

Ans. C
Sol. In $\triangle BOC$,

$$\angle A + \angle B + \angle C = 180°$$
$$\frac{1}{2}\angle A + \frac{1}{2}\angle B + \frac{1}{2}\angle C = 90°$$

Angle BOC = 180 - (B+C)/2

$$\angle BOC = 180° - \left(90° - \frac{1}{2}\angle A\right)$$

$$= 90° + \frac{1}{2}\angle A$$

24. If P and Q are points on the opposite sides of a straight line AB. If O is a point on AB such that ∠AOP = ∠BOQ, then when one of the following is correct?
A. ∠AOP < ∠BOQ
B. ∠AOP > ∠BOQ
C. ∠AOP = 180° - ∠AOQ
D. ∠AOP = 90° - ∠AOQ
Ans. C
Sol. Given that, ∠AOP = ∠BOQ
Since it is possible only when POQ be a straight line.
So, ∠AOP + ∠AOQ = 180°
⇒ ∠AOP = 180° - ∠AOQ

25. The median *BD* of the Δ*ABC* meets *AC* at *D*. If $BD = \frac{1}{2}AC,$ then which one of the following is correct?
A. ∠*ACB* = 1 right angle
B. ∠*BAC* = 1 right angle
C. ∠*ABC* = 1 right angle
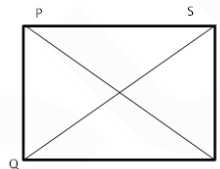D. None of these
Ans. C
Sol. Here, we see that
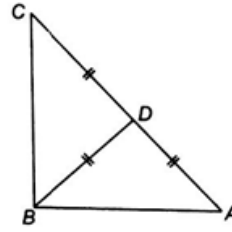
CD = BD = DA
This is possible only when *ABC* is right angled Triangles.

26. PQRS is a quadrilateral such that PQ = QR and PS < RS . Which one of the following is correct?
A. ∠PQS = ∠QRS   B. 2∠QPS = ∠QRS
C. ∠QPS > ∠QRS   D. None of these
Ans. C

Sol.
Given, PQ = QR, ∴ ∠QPR = ∠QRP (Isosceles triangle)
Now, **∵ PS < RS, ∴ ∠SRP < ∠RPS**
∴ ∠QPR + ∠RPS > ∠QRP + ∠PRS
⇒ ∠QPS > ∠QRS

27. Find the number of sides of a regular polygon whose each internal angle is 150 °.
A. 10   B. 12
C. 15   D. 18
Ans. B
Sol. Each interior angle of a regular polygon $= 180° \left(\frac{n-2}{n}\right)$
Where n is number of sides
Given, each internal angle is 150 °.
⇒ $180° \left(\frac{n-2}{n}\right) = 150°$
⇒ 12n – 24 = 10
⇒ 2n = 24
⇒ n = 12

28. Number of sides of a polygon whose internal and external angle differ by 132°?
A. 12   B. 13
C. 14   D. 15
Ans. D

Sol. Each interior angle of a regular polygon $= 180° \left(\frac{n-2}{n}\right)$

Each exterior angle of a regular polygon $= \frac{360°}{n}$

Where, n is number of sides.
Given, internal and external angle differ by 132 °.
$\Rightarrow 180° \left(\frac{n-2}{n}\right) - \frac{360°}{n} = 132°$
⇒ 180n – 360 – 360 = 132n
⇒ 48n = 720
⇒ n = 15

29. Two concentric circles are of radii 5 cm and 13 cm. The chord of the larger circle touches the smaller circle, then the length of the chord is how much?
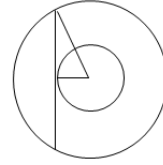A. 24 cm   B. 26 cm
C. 25 cm   D. None of these
Ans. A

Sol.
The chord of the larger circle is a tangent to the smaller circle.
Tangents are perpendicular to the normal drawn from center.
A perpendicular drawn from center bisects the chord.
Pythagoras theorem
Hypotenuse^2 = perpendicular^2 + base^2
Let length of chord be 'c'.
Given, concentric circles are of radii 5 cm and 13 cm.
∴ $13^2 = 5^2 + (c/2)^2$
⇒ $(c/2)^2 = 169 – 25$
⇒ c/2 = 12
⇒ c = 24 cm

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