Lockdown 2.0 | Study Plan
Day 15

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1. A Chemo-heterotropic bacteria can _____.
A. fix carbon
B. not fix carbon
C. make its own food
D. all of above
Ans. B
Sol.
Chemoheterotropic bacteria have **two unique characteristics**-
a) They cannot make their own food
b) They cannot fix carbon
• They get energy from the oxidation of inorganic minerals in their environment.
• They cannot make organic molecules from inorganic sources hence they eat other organisms to get the carbon they need.
• **'Rock Eater' or 'Stone Eater'** bacteria is an example of Chemoheterotropic bacteria.

2. _____are arm like projections of the cytoplasm of unicellular protists like amoeba.
A. Amoebopod
B. Thermopod
C. Pseudopod
D. Xenopod
Ans. C
Sol.
Pseudopod is arm like projections of the cytoplasm of unicellular protists like amoeba.
• Pseudopods have two main functions:
a) Locomotion and
b) Capture of prey or engulfing of food
• Pseudopodia is also a characteristic of a group of protozoan organisms called rhizopods under the kingdom Protista.

3. Which disorder is generally caused by deficiency of thyroid hormones?
A. Diabetes Mellitus
B. Acromegaly
C. Cretinism
D. Addison's disease
Ans. C
Sol.
Cretinism is caused generally due to deficiency of thyroid hormones.
• **Diabetes Mellitus** is caused when blood glucose level is high due to insufficient secretion of Insulin hormone.
• **Acromegaly** disorder is caused by deficiency of thyroid hormones.
• **Addison's disease** is caused by inefficiency of adrenal cortex to produce corticosteroids hormones.

4. Which one of the following ports mainly deals with the export of Iron and Aluminium?
A. Paradeep
B. Tutikorin
C. Kochi
D. Marmagoa
Ans. A
Sol.
Paradeep port mainly deals with the export of Iron and Aluminium.
• It is located in the eastern coast of India in Odisha state.
• Jawaharlal Nehru, the then Prime Minister of India, laid the foundation stone of the Port on 3rd January 1962.
• It was opened in 1966 and became the FIRST MAJOR PORT in the East Coast commissioned after independence.

5. Global Hunger Index is released by?
A. IFPRI
B. WIPO
C. IEP
D. ILO
Ans. A
Sol.
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%.

6. What is rank of India in End of Childhood Index, 2019?
A. 122
B. 113
C. 99

D. 82
Ans. B
Sol.
India ranked at **113th position** in End of Childhood Index, 2019.
• The End of Childhood Index, 2019 was released by **Save the Children organisation**.
• Save the Children has evaluated countries on eight indicators.
• **Singapore topped the list** and Sweden was at second position.
• Report released data of Mortality rate, child marriage, malnutrition, and drop out ratio, child labour, teen pregnancy, migration and homicide related to children in India.

7. Which of the following is true about Liquid Hydrogen?
A. It is a colourless liquid.
B. Used as a rocket fuel.
C. Produces water vapor in combustion with oxygen.
D. All of these
Ans. D
Sol.
Solution:
• Liquid Hydrogen is the liquid state of the element hydrogen.
• It is a colourless liquid & a common liquid rocket fuel for rocketry applications.
• The product of its combustion with oxygen alone is water vapor.
• It requires cryogenic storage technology as it is a hazard for cold burns.
All of the above options are correct.

8. Which of the following scholar first deciphered the Ashokan Edicts?
A. Strebo
B. James Princep
C. Alexandra Cunningham
D. Robert Sebel
Ans. B
Sol.
• **James Princep** first deciphered the Ashokan Edicts.
• The edicts in Brahmi script mentioned a King **Devanampriya Piyadasi** which Prinsep initially assumed was a Sri Lankan king.
• Initially he was appointed assistant assay-master at the Kolkata mint and was soon promoted as assay-master of the Benares Mint.

9. Which officials are appointed in Mauryan Period for Administration of Justice?
A. Rajukas
B. Dhammamahatras
C. Vidhi Amatya
D. Dauvarikas
Ans. A
Sol.
The **Rajukas** are appointed in Mauryan Period for Administration of Justice.
• The **4th** Pillar Inscription of Ashoka gives information about the Rajukas.
• Note that there are **seven major pillar edicts of Ashoka**.
• Rajukas were the key officers and were entrusted to execute Ashoka's most welfare projects and administrative reforms.

10. The first law of kepler states that?
A. The square of the orbital period and cube of the semi-major axis of a planet are proportional
B. The geosynchronous satellite remains constant with respect to earth movement
C. A line segment joining a planet and the Sun sweeps out equal areas during equal intervals of time.
D. Planets move in an elliptical path around sun, with sun at one of the foci
Ans. D
Sol.
Kepler gave three major laws, these are as follow-
• **First law of kepler**- Planets move in an elliptical path around sun, with sun at one of the foci
• **Second law of kepler**- A line segment joining a planet and the Sun sweeps out equal areas during equal intervals of time
• **Third law of kepler**- The square of the orbital period and cube of the semi-major axis of a planet are proportional

• It is important to note that Kepler could not give a theory to explain the motion of planets.

11. Fill in the blank with most appropriate word which will suit the context of the sentence.
Sanjay found the unchanging rhythm of the musical piece to be annoyingly _____.
A. Irreverent
B. Recusant
C. Monotonous
D. Coherent
Ans. C
Sol.
'Unchanging' rhythm tends to be boring. 'Monotonous' meaning 'dull, tedious, and repetitious; lacking in variety and interest' is the apt fit for the blank.
Hence, option C is the correct answer.

12. Fill in the blank with most appropriate word which will suit the context of the sentence.
I don't have much energy these days. After a short stroll, I am quite _____.
A. Relieved
B. Eager
C. Uplifted
D. Exhausted
Ans. D
Sol.
The sentence implies that the subject gets tired after a short troll. Hence, option D i.e. 'exhausted' is the apt fit for the blank.

13. Fill in the blank with most appropriate word which will suit the context of the sentence.
I work very and am decisive and accurate in my judgement.
A. Anxious
B. Elaborate
C. Efficiently
D. Precise
Ans. C
Sol.
The blank needs an adverb to form a grammatically correct sentence. 'Efficiently' meaning 'in a way that achieves maximum productivity with minimum wasted effort or expense' is the apt fit for the blank.
Hence, option C is the correct answer.

14. **Select the most appropriate word to fill in the blank.**
He obtained 80% marks in Science in High School. He has qualified _____ the science stream in plus two.
A. for
B. at
C. to
D. in
Ans. A
Sol.
The correct preposition that should be used here is "for". Therefore, the correct answer is option A.

15. **Select the most appropriate word to fill in the blank.**
Milk is _____ than any other food.
A. more nourishing
B. nourishing
C. most nourishing
D. as nourishing
Ans. A
Sol.
This sentence compares milk with other foods. Therefore "more" should be used here. That is why A is the correct answer.

16. **Choose the most appropriate option to change the narration (direct/indirect) of the given sentence.**
She said, "Bravo! You have topped the exams." A. She said bravo that you have topped the exams.
B. She applauded her saying that she had topped the exams.
C. She exclaimed with joy that she has topped the exams.
D. She exclaimed that she had topped the exams.
Ans. B
Sol.
The given sentence is in exclamatory form. The rules of changing exclamatory words are the following-

Direct	Indirect form
said Alas!	exclaimed with sorrow
said Fi/Ugh!	exclaimed with despise/ disg
said Wow/Hurray!	exclaimed with joy
said Bravo!	Applauded him/her/them

The conjunction 'that' will be used to connect the reported and reporting part of the sentence. The pronoun of the reported speech 'you' is changed as per the subject of the reporting speech 'she'. The reporting verb is in simple past tense. The reported speech will be changed from present perfect 'have' to past perfect tense 'had'.'. Hence the correct answer is option B.

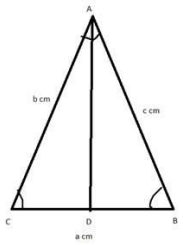
17. **Choose the most appropriate option to change the narration (direct/indirect) of the given sentence.**
He said to me, "Five years ago, I was seventeen years of age." A. He told me that Five years ago he was seventeen years of age.
B. He told me that Five years before he had been seventeen years of age.
C. He said to me that Five years ago, I was seventeen years of age.
D. He said to me that Five years ago he was seventeen years of age.
Ans. B
Sol.
In indirect narration, 'said to' is converted to 'told'. As the reporting speech is in past tense, tense of the reported speech will be changed from simple past tense to past perfect tense. So 'was' will be changed to 'had been'. The pronoun of the reporting speech will be changed from 'I' to 'he' in accordance with the subject of the reporting speech i.e. 'he'. In indirect narration 'ago' is changed to 'before'. So the answer of the above question is option B.

18. Read the following passage and answer the questions that follow.
February 2 is celebrated as World Wetlands Day. It was on this date in 1971 that the Ramsar 'Convention on Wetlands of International Importance' was adopted in Ramsar, Iran. The Ministry of Environment, Forests and Climate Change had announced that the Ramsar Convention had declared 10 wetlands from India as new sites of "international importance", taking the total number of Ramsar Sites in the country to 37.
The Ramsar Convention definition for wetlands includes marshes, floodplains, rivers and lakes, mangroves, coral reefs and other marine areas no deeper than 6 metres at low tide, as well as human-made wetlands such as waste-water treatment ponds and reservoirs.
The IPBES (Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services) global assessment identified wetlands as the most threatened ecosystem. This impacts 40% of the world's plant and animal species that live or breed in wetlands, according to UNESCO. Thirty per cent of land-based carbon is stored in peatland; one billion people depend on wetlands for their livelihoods; and wetlands provide $47 trillion in essential services annually.
This year's Wetlands Day theme is Wetlands and Biodiversity.
India has over 7 lakh wetlands and rules for their protection; yet not one of the wetlands has been notified under domestic laws, according to environmentalist Anand Arya. In India, wetlands are regulated under the Wetlands (Conservation and Management) Rules, 2017. The 2010 version of the Rules provided for a Central Wetland Regulatory Authority; the 2017 Rules replace it with state-level bodies and created a National Wetland Committee, which functions in an advisory role. The newer regulations removed some items from the definition of "wetlands" including backwaters, lagoon, creeks, and estuaries.
In October 2017, the Supreme Court expressed concern over the disappearance of wetlands, and observed, "If there are no wetlands left, it will affect agriculture and several other things. It is a very important issue."
The designation as a Ramsar Site means "Wetlands of International Importance". They are recognised as being of significant value not only for the country

or the countries in which they are located, but for humanity as a whole… The inclusion of a wetland in the list embodies the government's commitment to take the steps necessary to ensure that its ecological character is maintained. The Convention includes various measures to respond to threats to the ecological character of Sites.
The selection is made on the basis of various criteria defined under the convention. Wetlands should be selected for the List on account of their international significance in terms of ecology, botany, zoology, limnology or hydrology."
There are currently over 2,300 Ramsar Sites around the world, covering over 2.1 million square km.
In India, the 10 new wetlands declared Ramsar Sites are Nandur Madhameshwar in Maharashtra; Keshopur-Miani, Beas Conservation Reserve and Nangal in Punjab; and Nawabganj, Parvati Agra, Saman, Samaspur, Sandi and Sarsai Nawar in UP.
As per the Ramsar Convention, which of the following are wetlands
1) lakes
2) rivers
3) Nandur Madhameshwar, Maharashtra
4) marshes and floodplains
A. 1 and 2
B. 1, 2 and 4
C. all of the above
D. 1,2 and 3
Ans. C
Sol. As per the types of wetlands mentioned in the passage, options 1,2 and 4 are wetlands. Nandur Madhameshwar is recently declared as Ramsar site, which is also a wetland. So, the correct answer is option C.

19. Choose the most appropriate option to change the narration(direct/indirect) of the given sentence.
She said, "Alas! I have lost my wallet."A. She said alas!, she had lost her wallet.
B. She exclaimed with sorrow that she had lost her wallet.
C. She exclaimed with sorrow and said I have lost my wallet.
D. She said with sorrow that she had lost her wallet.
Ans. B
Sol.
This is an example of exclamatory sentences. In these type of sentences following changes are made in indirect speech-
said alas! is changed to exclaimed with sorrow.
said Fi/Ugh! is changed to exclaimed with despise/disgust.
said Wow/Bravo! is changed to exclaimed with joy.
Comma and inverted commas are removed and conjunction **that** is used. Subject is changed as per the subject in reporting speech.
Hence, option B is the correct answer.

20. Identify the best way to improve the underlined part of the given sentence. If there is no improvement required, select 'no Improvement'.
Raul went there with a view **to insult** John.
A. to insulting
B. of insulting
C. for insulting
D. No improvement
Ans. A
Sol.
The underlined segment must be replaced by option A. The phrase "with a view to + gerund (-ing)" is a fixed phrase. Insult cannot be associated with 'for' and 'of'. Phrase "to insult" is correct. Hence option A is the correct answer.
21. In ABC, AB = c cm, AC = b cm and CB = a cm. If $\angle A = 2\angle B$, then which of the following is true?
A. $a^2 = b^2 - bc$
B. $a^2 = b^2 - ac$
C. $a^2 = b^2 + bc$
D. $a^2 = b^2 + ac$
Ans. C
Sol.
In ABC, AB = c cm, AC = b cm and CB = a cm. If $\angle A = 2\angle B$
Draw a line AD which is an angle bisector of angle A
$\Rightarrow \angle ABD = \angle BAD$
$\Rightarrow$ AD = DB……(1)



∠ADC=∠DAB+∠B=2∠B=∠CAB
∠CAD=∠CAB−∠DAB=∠B
that △ACD~△BCA (Using AA similarity criterion)
So, $\frac{AC}{BC} = \frac{AD}{AB}$
⇒ AC × AB = BC × AD.....(2)
Also, $\frac{AC}{BC} = \frac{CD}{AC}$
⇒ $AC^2 = BC \times CD$.....(3)
Consider, $(BC)^2 = BC \times (CD + DB)$
From (1) , DB = AD
⇒
$(BC)^2 = BC \times (CD + DB) = (BC)^2 = BC \times (CD + AD) = (BC \times CD) +$ BC × AD)
⇒ $(BC)^2 = (AC)^2 + (AC \times AB)$
⇒ $a^2 = b^2 + bc$

22. In an office, 70% of the total number of employees are females. 80% of the total number of employees, including 85 males, got promotion. If there are 105 female employees, then what percentage of female employees got promotion?
A. 30%
B. $33\frac{1}{3}\%$
C. 4%
D. 35%
Ans. B
Sol.
Let the total number of employees in the office = 100x
Number of females = $\frac{100x \times 70}{100} = 70$x
Number of males = 100x – 70x = 30x
So, 70x = 105
⇒ x = $\frac{105}{70}$
⇒ 30x = $\frac{105}{70} \times 30 = 45$
So, there are 105 females and 45 males in the office.
Hence, total number of employees = 45 + 105 = 150
Number of employees who got promotion = $\frac{100x \times 80}{100} = 80$x = $80 \times \frac{105}{70} = 120$
So, number of females who got promotion = 120 – 85 = 35
Hence, percentage of female employees who got promotion = $\frac{35 \times 100}{105} = 33\frac{1}{3}\%$

23. The average score of 42 students in a test is 69. The ratio of the number of boys so that of girls is 10 : 11. The average score of the boys is 20% more than that of the girls. The average score of the boys is:
A. 82.8
B. 75.6
C. 73.5
D. 75.2
Ans. B
Sol.
Average score of 42 students in a test is 69.
Now Sum of scores of all 42 students = Average × total number of students = $42 \times 69 = 2898$
Ratio of number of Boys to girls = 10:11
If boys are 10x then girls will be 11x
⇒ 21x = 42
⇒ x = 2
So number of boys =20
Number of girls = 22
Let average score of girls = y
So average score of boys = $y + \frac{y \times 20}{100} = \frac{6y}{5}$
Sum of scores of all 42 students = $22y + 20\left(\frac{6y}{5}\right) = 46y = 2898$
⇒ $46y = 2898$
⇒ y = 63
So, Average score of boys = $\frac{6}{5} \times 63 = 75.6$

24. If $x^4 + x^2y^2 + y^4 = \frac{21}{256}$ and $x^2 + xy + y^2 = \frac{3}{16}$, then $2(x^2 + y^2) =$

A. $\frac{3}{8}$

B. $\frac{5}{8}$

C. $\frac{3}{4}$

D. $\frac{5}{16}$

Ans. B

Sol.

$$x^4 + x^2y^2 + y^4 = \frac{21}{256}$$

First of all we will factorize $x^4 + x^2y^2 + y^4$.

$\Rightarrow x^4 + x^2y^2 + y^4$

$\Rightarrow x^4 + 2x^2y^2 + y^4 - x^2y^2$

$\Rightarrow (x^2 + y^2)^2 - (xy)^2$

$\Rightarrow (x^2 + y^2 + xy)(x^2 + y^2 - xy)$

$\Rightarrow$

$$(x^2 + xy + y^2)(x^2 - xy + y^2) = \frac{21}{256}$$

But $x^2 + xy + y^2 = \frac{3}{16}$.....(1)

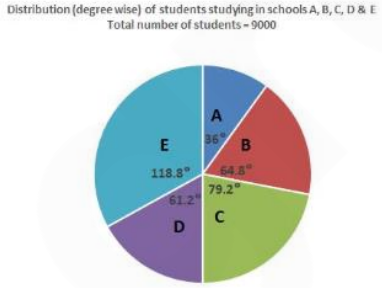
So $x^2 - xy + y^2 = \frac{21\times16}{256\times3} = \frac{7}{16}$

.....(2)

Adding (1) and (2)

$\Rightarrow 2(x^2 + y^2) = \frac{10}{16} = \frac{5}{8}$

25. Study given pie chart and answer the question that follows.



The total number of students in schools D and E is what percentage more than the total number of students in schools B and C?

A. 20

B. 25

C. 30

D. 35

Ans. B

Sol.

Percentage of number of students in schools D and E = $\frac{61.2^0+118.8^0}{360^0} \times 100 = 50\%$

Percentage of number of students in schools B and C = $\frac{64.8^0+79.2^0}{360^0} \times 100 = 40\%$

Required percentage = $\frac{50\%-40\%}{40\%} \times 100 = 25\%$

Hence, total number of students in schools D and E is 25% more than the total number of students in schools B and C.

26. A certain sum (in Rs.) is invested at simple interest at x% p.a. for 5 years. Had it been invested at (x + 5)% p.a., the simple interest would have been Rs. 9,200 more than the earlier one. What is the sum?

A. Rs. 36,800

B. Rs. 36,400

C. Rs. 35,800

D. Rs. 40,000

Ans. A

Sol.

Let I is the simple interest on Rs. P invested at simple interest at x% p.a. for 5 years.

Hence, I = $\frac{P\times x\times5}{100}$.....(1)

Also, (I + 9200) = $\frac{P\times(x+5)\times5}{100}$

.....(2)

Subtract (1) from (2) , we get

$$9200 = \frac{P \times 5}{100}(x + 5 - x)$$

$\Rightarrow P = \frac{9200\times100}{25} = 36800$

27. When 3738, 5659 and 9501 are divided by the greatest possible number X, the remainder in each case is y. What is the sum of x and y?

A. 3783

B. 3637

C. 3673

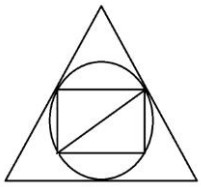
D. 3738

Ans. D

Sol.

Let when 3738, 5659 and 9501 are divided by x then quotient will be A, B and C respectively and y is the remainder in each case.
So , using remainder theorem
3738 = Ax + y……..(1)
5659 = Bx + y……..(2)
9501 = Cx + y……..(3)
Subtract (3) from (2)
⇒ (9501 - 5659) = (C- B) x
⇒ 3842 = (C- B) x……..(1)
Subtract (2) from (1)
5659 - 3738 = (B - A)x
⇒ 1921 = (B - A)x……..(2)
Now we will evaluate HCF of 3842 & 1921
1921 = 1921×1
3842 = 1921×2
Hence HCF of 3842 & 1921 = 1921……..(3)
From (1) , (2) and (3)
So, x = 1921
3738 = 1921 * 1 + y
⇒ y = 1817
x = 1921
y = 1817
x + y = 1921 + 1817= 3738
Hence , sum of x and y = 3738

28. A circle is inscribed in an equilateral triangle of side 24 cm. What is the area (in cm2) of the square inscribed in the circle?
A. 48
B. 72
C. 96
D. 54
Ans. C
Sol.
Side of an equilateral triangle = 24 cm
Inradius of an equilateral triangle = $\frac{side\ of\ equilateral\ triangle}{2\sqrt{3}}$ = $\frac{24}{2\sqrt{3}} = \frac{12}{\sqrt{3}}$ cm
Inradius of an equilateral triangle = Radius of inscribed circle = $\frac{12}{\sqrt{3}}$ cm



Diameter of inscribed circle = Diagonal of inscribed square = $2 \times \frac{12}{\sqrt{3}}$ cm = $\frac{24}{\sqrt{3}}$ cm
Diagonal of square = $\sqrt{2} \times side\ of\ square$
$\sqrt{2} \times side\ of\ square = \frac{24}{\sqrt{3}}$ cm
Side of square = $\frac{24}{\sqrt{6}}$ cm
Area of square = $\left(\frac{24}{\sqrt{6}}\right)^2 = \frac{24 \times 24}{6} = 96\ cm^2$

29. **Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?**
f e d _ h f _ d h h _ e d h _ f e _h h
A. h e f h d
B. e f h d h
C. h e h f d
D. f d e h h
Ans. A
Sol.
Given: f e d _ h f _ d h h _ e d h _ f e _h h
The pattern repeated here is: f e d **h** h/ f **e** d h h/ **f** e d h **h/** f e **d** h h
So, the correct set of letter is: h e f h d
Hence, the correct option is A.

30. **A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.**
?, 7, 15, 31, 63
A. 4
B. 5
C. 3
D. 6
Ans. C
Sol.
Logic: number **×** 2 (+ 1)
3 × **2 (+1)** = 7
7 × **2 (+1)** = 15
15 × **2 (+1)** = 31
31 × **2 (+1)** = 63

Hence, the correct option is C.

31. Select the word pair in which the two words are related in the same way as are the two words in the following word pair.
SAARC : KATHMANDU
A. OECD : GENEVA
B. INDIA : ECA
C. WTO : GENEVA
D. ASEAN : INDIA
Ans. C
Sol.
As Headquarters of 'SAARC' is situated in the Capital of Nepal 'Kathmandu' , Similarly. The headquarters of 'WTO' is situated in Geneva.
Hence, option C. is the correct answer.

32. Arrange the given words in the sequence in a meaningful order.
1) Air Commodore
2) Air Marshal
3) Air Chief Marshal
4) Group Captain
5) Air Vice-Marshal
A. 4, 2, 1, 3, 5
B. 4, 1, 5, 2, 3
C. 3, 2, 1, 5, 4
D. 3, 5, 4, 2, 1
Ans. B
Sol.
In this question, we show that –This is the hierarchy of Indian Air Force in ascending order;
4) Group Captain < 1) Air Commodore < 5) Air Vice-Marshal < 2) Air Marshal < 3) Air Chief Marshal
So the correct sequence is 4, 1, 5, 2, 3.
So correct answer is option B.

33. Which number will replace the question mark(?) in the following series?
8, 11, 19, 30, 49, 79, ?, 207
A. 100
B. 128
C. 195
D. 140
Ans. B
Sol.
Logic:
8 + 11 = 19
11 + 19 = 30
19 + 30 = 49
30 + 49 = 79
49 + 79 = 128
79 + 128 = 207
So, Missing Number is 128.
Hence, the correct answer is option B.

34. In the following question, select the odd word pair from the given alternatives.
A. Bhopal : Lake City
B. Jodhpur : Sun City
C. Bangalore : Blue City
D. Jaipur : Pink City
Ans. C
Sol.
Except for (Bangalore : Blue City), all other shows relationship as - Indian City Name : Its nickname.
But Bangalore is known as the Silicon Valley of India.
Jodhpur is known as Blue city of India as the houses in old areas are painted with blue color.
Hence, the correct answer is option C.

35. If LEAD is coded as 15847 and RAT is coded as 21423, then how will ROSE be coded as?
A. 2113156
B. 2528226
C. 2118228
D. 2118596
Ans. C
Sol.
As,
LEAD= L(12)E(5)A(1)D(4)= L(12+3)E(5+3)A(1+3)D(4+3)= L(15)E(8)A(4)D(7)=15847
and
RAT= R(18)A(1)T(20)= R(18+3)A(1+3)T(20+3)= R(21)A(4)T(23)=21423
Similarly,
ROSE= R(18)O(15)S(19)E(5)= R(18+3)O(15+3)S(19+3)E(5+3)= R(21)O(18)S(22)E(8)= 2118228
Hence, the correct answer is option C.

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