

## CBI Credit Officer Sample Paper

### Directions (1-8) : Read the given passage to answer the following questions

The question of what it means to be conscious has been a subject of philosophical and scientific inquiry for centuries. While there is no **consensus** on a single definition of consciousness, it is generally agreed that it involves awareness of the self and the environment, as well as the ability to experience subjective sensations and emotions. The neurobiology of consciousness is an area of research that \_\_\_\_\_ to understand the complex neural processes underlying this enigmatic phenomenon.

One of the main challenges in studying the neurobiology of consciousness is the fact that consciousness is a subjective experience that cannot be directly measured or observed. While scientists can study brain activity using techniques such as electroencephalography (EEG) , and positron emission tomography (PET) , these methods can only provide indirect measures of consciousness. For example, scientists can observe changes in brain activity associated with conscious perception of a stimulus, but they cannot directly observe the conscious experience itself. Despite these challenges, scientists have made significant progress in understanding the neurobiology of consciousness. One key area of research involves the study of the neural correlates of consciousness (NCCs) . NCCs are patterns of brain activity that are related with conscious experience. By identifying these patterns, scientists hope to better understand how the brain generates conscious experience.

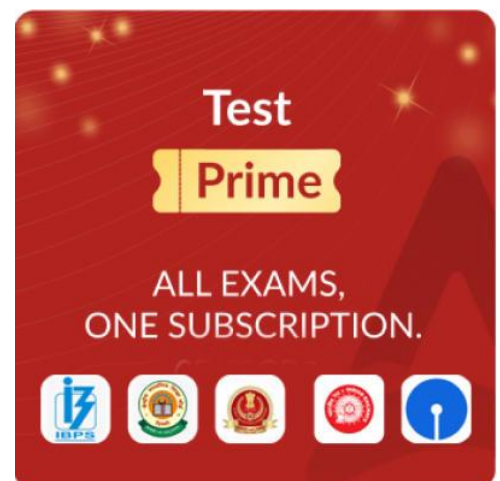
Another area of research involves the study of brain networks involved in consciousness. The default mode network (DMN) is a network of interacting brain regions that is active when a person is not focused on the outside world. The DMN is thought to play a role in self-referential thinking and introspection, and has been implicated in the generation of conscious experience. Other brain networks, such as the salience network and the dorsal attention network, have also been implicated in consciousness. Recent research has also suggested that consciousness may be linked to the phenomenon of neural synchrony, or the coordinated activity of neurons in different brain regions. Studies have shown that neural synchrony is **enhanced** during conscious perception of stimuli, and disrupted during unconscious processing.

### Q1. What is the definition of consciousness?

- (a) The capability to comprehend the subjective sensations and emotions
- (b) It is the awareness of internal and external existence
- (c) The ability to focus on external stimuli
- (d) Only (a) and (b)
- (e) Only (a) and (c)


### Q2. What is the main challenge in studying the neurobiology of consciousness?

- (a) Consciousness is an intangible asset and is difficult to be measured
- (b) Scientists do not have the proper technology to measure brain activity
- (c) Lack of awareness among people has created a taboo around brain related difficulties.
- (d) Neurobiology is dependent on other sciences and thus needs high proficiency and expertise to practice.
- (e) None of these



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**Q3. Which of the following is false regarding 'NCCs' as per the given passage?**

- (a) It could help to provide a better view on conscious perception
- (b) It is a pattern of nervous system by which cells in the developing nervous system acquire distinct identities.
- (c) It is the specific configurations of neural activity that are closely linked with conscious experience.
- (d) only (a) and (c)
- (e) None of these

**Q4. Which of the following statements is false with respect to the data given in the passage?**

- (a) Conscious experience can be perceived through advance technology
- (b) NCC could provide a pathway to access the functioning of brain in generating conscious experience
- (c) salience network and dorsal attention network are involved in the creation of consciousness
- (d) Coordinated activity of neurons in different brain regions, enhanced during conscious perception
- (e) None of these

**Q5. What is the default mode network (DMN) and how is it related to consciousness?**

- (a) A brain network that is active when the mind is focused on external stimuli
- (b) A brain network that is activated when individual is focused on his self-referential thinking and introspection.
- (c) A brain network that is involved in the generation of conscious experience
- (d) Only (a) and (b)
- (e) Only (b) and (c)

**Q6. Which of the following words can fit into the given blank?**

- (a) stimulates
- (b) seeks
- (c) propagates
- (d) formulates
- (e) exhibits

**Q7. Which of the following is the synonym of "consensus" as highlighted in the given passage?**

- (a) cacophony
- (b) conflict
- (c) discord
- (d) unison
- (e) humdrum

**Q8. Which of the following is the synonym of "enhanced" as highlighted in the given passage?**

- (a) levied
- (b) iterated
- (c) ruptured
- (d) dissipated
- (e) augmented

**Directions (9-10) :** In each of the following questions, a sentence has been divided into four phrases. These phrases are may not have been placed in their correct positions. Identify the correct rearrangement of the phrases to make the sentence grammatically correct and contextually meaningful, and mark that option as the answer.

**Q9. improves cognitive functioning, (A) / personal and professional development (B) / a new language opens up new cultural vistas, (C) / and opens doors for both (D)**

- (a) DABC
- (b) ABDC
- (c) CADB
- (d) ACBD
- (e) No rearrangement required

**Q10. concerns that need to be resolved (A) / but they also raise social and ethical (B) / and big data are disrupting industries, (C) / technological advancements like artificial intelligence (D)**

- (a) DCBA
- (b) BDAC
- (c) CABD
- (d) ABDC
- (e) No rearrangement required

**Directions (11-13) :** In each of the questions given below four words are given in bold. These four words may or may not be in their correct position. The sentence is then followed by options with the correct combination of words that should replace each other in order to make the sentence grammatically and contextually correct. Find the correct combination of the words that replace each other. If the sentence is correct as it is then select option (e) as your choice.

**Q11. Rural women often burden (A) the shoulder (B) of ensuring adequate (C) to clean water, access (D) cooking fuel, and nutritious food for their families.**

- (a) A-B & C-D
- (b) A-B
- (c) A-C & B-D
- (d) C-D
- (e) No interchange required

**Q12. The G-20 summit and the withstand (A) of the Disaster Risk Reduction Working Group are an equipped (B) to design a future where we are opportunity (C) to outcomes (D) disaster risk.**

- (a) A-D
- (b) B-D & A-C
- (c) A-B
- (d) D-A & C-B
- (e) No interchange required

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**Q13.** Foreign nations should **engage (A)** in a sincere **inquiry (B)** of Indian parents' **unfair (C)** of cultural prejudice and **claims (D)** trials in their child protection system.

- (a) A-C & B-D
- (b) C-D
- (c) A-D & B-C
- (d) A-B
- (e) No interchange required

**Directions (14-15) :** Read each sentence to find out whether there is any grammatical or idiomatic error in it. The error, if any, will be in one part of the sentence. The letter of that part is the answer. If the given sentence is grammatically and contextually correct, then choose option "No error" as the correct answer. (Ignore errors of punctuation, if any) .

**Q14.** Vagus nerves are a pair of (A) / nerves, one on each side, that run (B) / from your brainstem, with (C) / the neck, to your chest and stomach (D) /.

- (a) A
- (b) B
- (c) C
- (d) D
- (e) No error

**Q15.** Having a regular breakfast (A) / means the metabolism begins (B) / to kick out and the body (C) / starts to burn the calories (D) /.

- (a) A
- (b) B
- (c) C
- (d) D
- (e) No error

**Directions (16-19):** Study the following information carefully and answer the questions given below:

Seven boxes i.e., V, Q, S, T, R, A and P were kept one above the other (but not necessarily in the same order) in seven different shelves such that the bottommost shelf is numbered as 1, the shelf just above it is numbered as 2 and so on till the topmost shelf is numbered as 7. Each box contains different items i.e., Bat, Basketball, Helmet, Gloves, Shoes, Volleyball and Goggles but not necessarily in the same order. Box P is kept two shelves below the box which contains Shoes. The shelf number of the box which contains Shoes is a multiple of 3. Two boxes are kept between the box which contains Shoes and box A which contains Volleyball. Box S is kept two shelves below box R which contains Basketball. Box S is not kept just above box P. Box S is not kept in the adjacent shelf of box A. Two boxes are kept between box R and box Q. Box T is kept three shelves above the box which contains Gloves. The box which contains the Bat is kept just above the box which contains the Volleyball. Box T does not contain the Helmet and Bat.

**Q16. Which of the following box is kept in bottommost shelf?**

- (a) Box V
- (b) Box A
- (c) Box P
- (d) Box Q
- (e) None of these

**Q17. How many boxes are kept between the box S and the box which contains Volleyball?**

- (a) Two
- (b) Three
- (c) Four
- (d) One
- (e) None of these

**Q18. What is the difference between the shelf number of box V and the box which contains Gloves?**

- (a) 5
- (b) 6
- (c) 4
- (d) 3
- (e) None of these

**Q19. Which of the following combination(s) is/are correct?**

- (a) Box A – 5<sup>th</sup> shelf
- (b) Box P - Helmets
- (c) Box Q – 3<sup>rd</sup> shelf
- (d) Box V - Bat
- (e) 7<sup>th</sup> shelf – Box A

**Directions (20-22) :** In each of the questions below, some statements are given followed by two conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follow from the given statements disregarding commonly known facts.

**Q20. Statements:** Only a few Ball are Ace

Some Ball are not Sky

Some Sky is Dream

**Conclusions: I.** Some Ace are Sky

**II.** No Ball is Dream

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follow

**Q21. Statements:** Only A is B

Some A is C

Only a few D are C

**Conclusions: I.** All A can be D

**II.** Some B can be C

(a) If only conclusion I follows

(b) If only conclusion II follows

(c) If either conclusion I or II follows

(d) If neither conclusion I nor II follows

(e) If both conclusions I and II follow

**Q22. Statements:** Some Bike is SUV

All SUV is Truck

Only a few Truck is Car

**Conclusions: I.** No SUV is Car

**II.** Some Bike is Truck

(a) If only conclusion I follows

(b) If only conclusion II follows

(c) If either conclusion I or II follows

(d) If neither conclusion I nor II follows

(e) If both conclusions I and II follow

**Q23. If in the word "RHOMBUS", all the letters are arranged in reverse alphabetical order from the left end, then which of the following letter will be the second to the left of the letter which is third from the right end?**

(a) S

(b) M

(c) R

(d) U

(e) B

**Directions (24-26) :** Study the following information carefully and answer the questions given below:

Seven persons have different heights and on the basis of their heights, they are arranged in descending order from left to right.

E is taller than B. Two persons have height between E and A. F is just shorter than A. G's height is 7cm less than E. G is just shorter than B. D's height is 182cm. A's height is 3cm less than D's height. E's height is 18cm less than A's height. C is one of the persons.

**Q24. What is the sum of the heights of A, E and G's height?**

(a) 374cm

(b) 494cm

(c) 298 cm

(d) 345cm

(e) 423 cm

**Q25. Who among the following person is the third tallest?**

- (a) D
- (b) A
- (c) F
- (d) C
- (e) E

**Q26. What may be the possible height of B?**

- (a) 165cm
- (b) 150cm
- (c) 153cm
- (d) 162cm
- (e) 158cm

**Directions (27-28) :** Study the following information carefully and answer the questions given below.

There are eight members (A, K, L, T, U, W, X and Y) in a family of three generation. There is no single parent in the family. A is grandchild of K. L is only sibling of K. W is sister-in-law of L. Y is Son-in-Law of W. There is no uncle and aunt of A. Y is married to U. U and T are of different gender. L is mother of T.

**Q27. How is Y related to K?**

- (a) Son-in-law
- (b) Brother
- (c) Uncle
- (d) Grandfather
- (e) None of these

**Q28. How is A related to W?**

- (a) Granddaughter
- (b) Grandson
- (c) Daughter
- (d) Either Grandson or Granddaughter
- (e) None of these

**Directions (29-30) :** Each of the questions below, consist a question and two statements numbered I and II. You have to decide whether the data provided in the statements are sufficient to answer the question. Read the three statements and give answer.

- (a) If data in statement I only is sufficient to answer the question.
- (b) If data in statement II only is sufficient to answer the question.
- (c) If data either in statement I alone or in statement II alone is sufficient to answer the question.
- (d) If data in statement I and II together is sufficient to answer the question.
- (e) If data even in statement I and II together are not sufficient to answer the question.



**Q29. Five friends - P, Q, R, S, and T are sitting around a circular table facing the centre but not necessarily in the same order. Who is sitting to the immediate right of R?**

- I. Q is sitting 2<sup>nd</sup> to the right of T who is not an immediate neighbour of P. S is not sitting next to Q.  
II. R is sitting second to the left of P. T is not an immediate neighbour of R and S.

**Q30. In a family of six members - P, Q, R, S, T and U determine the rank of T in terms of height.**

- I. S is taller than Q but shorter than P. U is not the tallest. R is taller than T.  
II. U is not the shortest. P is not the tallest. Q is taller than U but shorter than T.

**Q31. Four years ago, the age of P was  $(x+6)$  years. Six years hence, the age of P will be 30 years. Find the present age (in years) of P.**

- (a) 22  
(b) 24  
(c) 20  
(d) 18  
(e) 26

**Q32. 24% of A is two more than 14% of B. If sum of A and B is 800, then find value of B.**

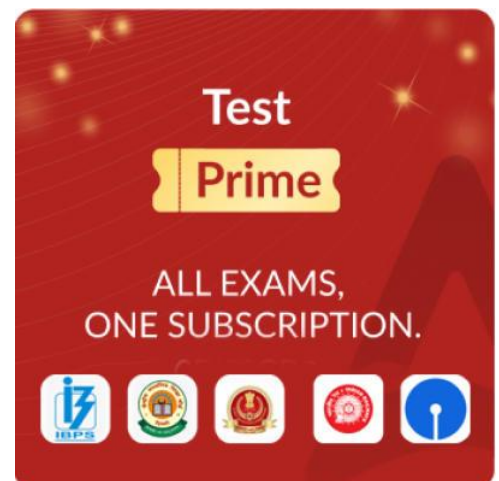
- (a) 600  
(b) 400  
(c) 300  
(d) 500  
(e) 480

**Q33.  $(2n + 1)$  men can do a work in 6 days, while  $(3n - 1)$  women can do the same work in 9 days. If the ratio of efficiency of a man to a woman is 2 : 1, then in how many days  $(2n+2)$  men can do  $\frac{16}{9}$  th of the same work.**

- (a) 10 days  
(b) 8 days  
(c) 12 days  
(d) 6 days  
(e) 15 days


**Q34. A man sold an article at Rs. 455 on loss of 35%. If the man marked up article at Rs. 1000 and sell the article at the profit of Rs. 140, then find the discount (in %) allowed by the man on the article.**

- (a) 12%  
(b) 16%  
(c) 18%  
(d) 20%  
(e) 24%



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**Q35. A and B invested Rs.  $(x+200)$  &  $(x+400)$  in a business. At the end of eight months, B left the business. At the end of a year, the ratio of profit share of A and B is 5 : 4 respectively. Find the sum of investment of A and B.**

- (a) Rs.3000
- (b) Rs 2800
- (c) Rs.2400
- (d) Rs.2000
- (e) Rs.2200

**Q36. A vessel contains mixture of milk and water in the ratio of 9 : 7 respectively. If 15 liters pure milk and 5 liters water added in the mixture, then milk becomes 50% more than water in resulting mixture. Find the quantity of milk in initial mixture (in liters) .**

- (a) 45
- (b) 36
- (c) 54
- (d) 63
- (e) 18

**Q37. The speed of a boat in still water is four times of the speed of stream and the boat covers 75 km distance in downstream in six hours. Find the time taken by the boat to cover 60 km in upstream.**

- (a) 4 hours
- (b) 7.5 hours
- (c) 10 hours
- (d) 6 hours
- (e) 8 hours

**Q38. A train crosses a X meters long platform in 20 seconds and a pole in  $\frac{15}{2}$  seconds. If speed of the train is 72 km/hr, then find the value of X.**

- (a) 350
- (b) 200
- (c) 250
- (d) 300
- (e) 150

**Direction (39 – 40) : What will be come in the place of question (?) mark in the following number series.**

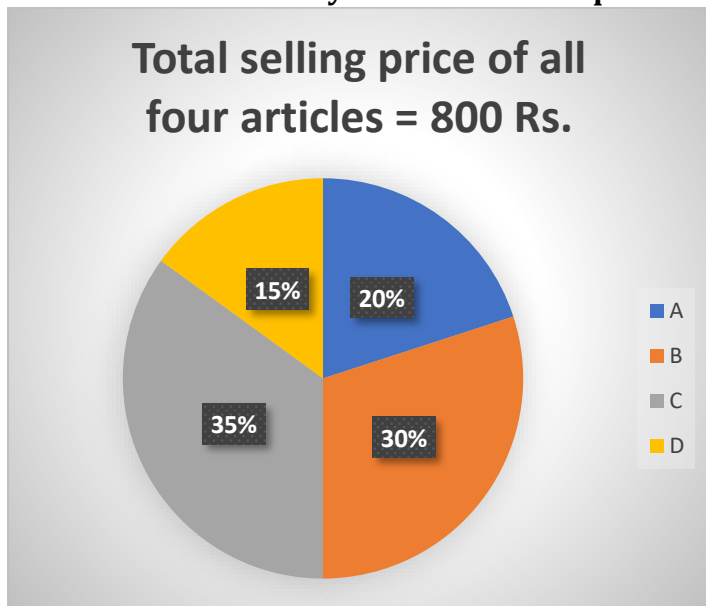
**Q39. 1, 6, 25, 76, ?, 154**

- (a) 155
- (b) 157
- (c) 151
- (d) 153
- (e) 149

**Q40.** 12, 15, 30, 65, 128, ?

- (a) 227
- (b) 229
- (c) 231
- (d) 233
- (e) 235

**Direction (41 – 45) :** The pie chart shows the percentage distribution of selling price (in Rs.) of four (A, B, C and D) different article. The table shows the profit percentage on these four articles. Read the data carefully and answer the questions.



Articles	Profit Percentage
A	60%
B	20%
C	40%
D	25%

**Q41.** Find difference between cost price (in Rs.) of B and D?

- (a) 104
- (b) 40
- (c) 100
- (d) 96
- (e) 94

**Q42.** Selling price of B is what percent more than cost price of C.

- (a) 10%
- (b) 20%
- (c) 30%
- (d) 15%
- (e) 40%

**Q43. If selling price of article X is Rs. 60 more than D and cost price is Rs. 20 more than A, then find the profit percentage on article X.**

- (a) 65%
- (b) 55%
- (c) 50%
- (d) 30%
- (e) 40%

**Q44. Find the ratio of cost price of D to selling price of A.**

- (a) 2 : 3
- (b) 3 : 2
- (c) 3 : 4
- (d) 3 : 5
- (e) 3 : 7

**Q45. Find the average selling price (in Rs.) of B and D.**

- (a) 178
- (b) 156
- (c) 128
- (d) 142
- (e) 180

## Solutions

**S1. Ans.(d)**

**Sol.** Refer to the first paragraph of the passage, "While there is no consensus on a single definition of consciousness, it is generally agreed that it involves awareness of the self and the environment, as well as the ability to experience subjective sensations and emotions."

**S2. Ans.(a)**

**Sol.** Refer to the second paragraph of the passage, "One of the main challenges in studying the neurobiology of consciousness is the fact that consciousness is a subjective experience that cannot be directly measured or observed"

**S3. Ans.(b)**

**Sol.** Refer to the second paragraph of the passage, "One key area of research involves the study of the neural correlates of consciousness (NCCs) . NCCs are patterns of brain activity that are related with conscious experience. By identifying these patterns, scientists hope to better understand how the brain generates conscious experience"

**S4. Ans.(a)**

**Sol.** Only option (a) is false.

**For (a) :** Refer to the second paragraph, “For example, scientists can observe changes in brain activity associated with conscious perception of a stimulus, but they cannot directly observe the conscious experience itself.”

**For (b) :** Refer to the second paragraph, “NCCs are patterns of brain activity that are related with conscious experience. By identifying these patterns, scientists hope to better understand how the brain generates conscious experience.”

**For (c) :** Refer to the last paragraph, “Other brain networks, such as the salience network and the dorsal attention network, have also been implicated in consciousness”

**For (d) :** Refer to the last paragraph, “Recent research has also suggested that consciousness may be linked to the phenomenon of neural synchrony, or the coordinated activity of neurons in different brain regions. Studies have shown that neural synchrony is enhanced during conscious perception of stimuli, and disrupted during unconscious processing.”

**S5. Ans.(e)**

**Sol.** Refer to the last paragraph, “The default mode network (DMN) is a network of interacting brain regions that is active when a person is not focused on the outside world. The DMN is thought to play a role in self-referential thinking and introspection, and has been implicated in the generation of conscious experience”

**S6. Ans.(b)**

**Sol.** Stimulates: raise levels of physiological or nervous activity in (the body or any biological system) .

Seeks: attempt to find (something) .

Formulates: create or prepare methodically.

Exhibits: manifest clearly

Propagates: spread and promote

**S7. Ans.(d)**

**Sol.** Cacophony: a harsh discordant mixture of sounds.

Conflict: a serious disagreement or argument, typically a protracted one.

Discord: disagreement between people.

Unison: the state of being of one opinion about something

Humdrum: lacking excitement or variety; boringly monotonous.

**S8. Ans.(e)**

**Sol.** Levied: impose (a tax, fee, or fine)

Iterated: perform or utter repeatedly.

Ruptured: breach or disturb (a harmonious feeling or situation) .

Dissipated: disappear or cause to disappear.

Augmented: having been made greater in size or value.

**S9. Ans.(c)**

**Sol.** The correct rearrangement of the phrases to make the sentence grammatically correct and contextually meaningful is “**CADB**”. The sentence thus formed would be “A new language opens up new cultural vistas, improves cognitive functioning, and opens doors for both personal and professional development.”

**S10. Ans.(a)**

**Sol.** The correct rearrangement of the phrases to make the sentence grammatically correct and contextually meaningful is “**DCBA**”. The sentence thus formed would be “Technological advancements like artificial intelligence and big data are disrupting industries, but they also raise social and ethical concerns that need to be resolved.”

**S11. Ans.(a)**

**Sol.** Among the highlighted words, all are incorrectly placed. The correct combination of words that should replace each other in order to make the sentence grammatically and contextually correct is A-B & C-D. The word “**burden**” should be replaced with “**shoulder**” and “**adequate**” should be replaced with “**access**” as the given statement is saying that rural women often shoulder the burden of ensuring access to clean water, adequate cooking fuel, and nutritious food for their families.

So, the correct sentence after rearrangement of words would be, “Rural women often **shoulder** the **burden** of ensuring **access** to clean water, **adequate** cooking fuel, and nutritious food for their families.”

**S12. Ans.(d)**

**Sol.** Among the highlighted words, all are incorrectly placed. The correct combination of words that should replace each other in order to make the sentence grammatically and contextually correct is D-A & C-B. The word “**withstand**” should be replaced with “**outcomes**” and “**equipped**” should be replaced with “**opportunity**” as the given statement is saying that the G-20 summit and the outcomes of the Disaster Risk Reduction Working Group are an opportunity to design a future where we are equipped to withstand disaster risk.

So, the correct sentence after rearrangement of words would be, “The G-20 summit and the **outcomes** of the Disaster Risk Reduction Working Group are an **opportunity** to design a future where we are **equipped** to **withstand** disaster risk.”

**S13. Ans.(b)**

**Sol.** Among the highlighted words, “unfair” and “claims” are incorrectly placed. The correct combination of words that should replace each other in order to make the sentence grammatically and contextually correct is C-D. The word “**unfair**” should be replaced with “**claims**” as the given statement is saying that foreign nations should engage in a sincere inquiry of Indian parents’ claims of cultural prejudice and unfair trials in their child protection system.

So, the correct sentence after rearrangement of words would be, “Foreign nations should **engage** in a sincere **inquiry** of Indian parents’ **claims** of cultural prejudice and **unfair** trials in their child protection system.”

**S14. Ans.(c)**

**Sol.** Part (C) has a grammatical error. The word "with" should be replaced by "through" to make the sentence grammatically and contextually correct. "With" is not the appropriate word here. The correct word to use is "through."

"With" typically implies being accompanied or in the company of something, which doesn't fit the intended meaning of the sentence.

"Through," on the other hand, is used to indicate the passage from one side or point to another, which is what the sentence is trying to convey. In this context, it correctly suggests that the vagus nerves extend from the brainstem through the neck to the chest and stomach, describing the pathway of the nerves.

The other parts of the sentence are grammatically correct.

Therefore, the correct sentence would be: "Vagus nerves are a pair of nerves, one on each side, that run from your brainstem, **through** the neck, to your chest and stomach."

**S15. Ans.(c)**

**Sol.** Part (C) has a grammatical error. In part (C) , the phrase "to kick out" is not the correct expression. The correct phrase to use is "to kick in," which means to start or become active.

The other parts of the sentence are grammatically correct.

Therefore, the correct sentence would be: "Having a regular breakfast means the metabolism begins to kick **in**, and the body starts to burn the calories."

So, the corrected sentence uses "kick in" to indicate that the metabolism becomes active, and it properly conveys the intended meaning.

**Directions (16-19) :**

**Final arrangement:**

Shelves	Boxes	Items
7	V	Bat
6	A	Volleyball
5	R	Basketball
4	T	Goggles
3	S	Shoes
2	Q	Helmet
1	P	Gloves

**Clues:** Box P is kept two shelves below the box which contains Shoes. The shelf number of the box which contains Shoes is a multiple of 3. Two boxes are kept between the box which contains Shoes and box A which contains Volleyball.

**Inference:** From the above conditions there are two possibilities i.e., Case 1 and Case 2.

Shelves	Case 1		Case 2	
	Boxes	Items	Boxes	Items
7				
6		Shoes	A	Volleyball
5				

4	P			
3	A	Volleyball		Shoes
2				
1			P	

**Clues:** Box S is kept two shelves below box R which contains Basketball. Box S is not kept just above box P. Box S is not kept in the adjacent shelf of box A. Two boxes are kept between box R and box Q.

**Inference:** From the above conditions Case 1 is cancelled here as there is no place for box S and box R.

Shelves	Case 1		Case 2	
	Boxes	Items	Boxes	Items
7				
6		Shoes	A	Volleyball
5			R	Basketball
4	P			
3	A	Volleyball	S	Shoes
2			Q	
1			P	

**Clues:** Box T is kept three shelves above the box which contains Gloves. The box which contains the Bat is kept just above of the box which contains the Volleyball. Box T does not contain the Helmets and the Bat.

**Inference:** From the above conditions it is clear that Box Q contains Helmets.

Shelves	Boxes	Items
7		Bat
6	A	Volleyball
5	R	Basketball
4	T	
3	S	Shoes
2	Q	Helmets
1	P	Gloves


**Inference:** Only one box is remaining i.e., box V and only one item remains i.e., Goggles. So, the final arrangement is:

Shelves	Boxes	Items
7	V	Bat
6	A	Volleyball
5	R	Basketball
4	T	Goggles
3	S	Shoes
2	Q	Helmet
1	P	Gloves

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**S16. Ans.(c)**

**Sol.** Box P is kept in the bottommost shelf

**S17. Ans.(a)**

**Sol.** Two boxes are kept between the box S and the box which contains Volleyball

**S18. Ans.(b)**

**Sol.** The shelf number of box V is 7

The shelf number of the box which contains Gloves is 1

Difference between the shelf number of box V and the box which contains Gloves =  $7 - 1 = 6$

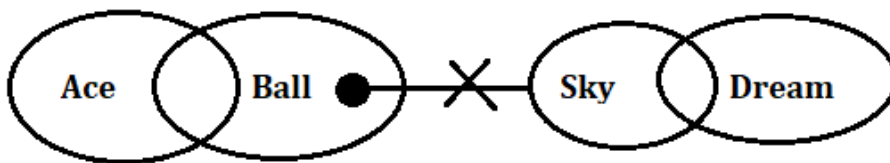
**S19. Ans.(d)**

**Sol.** Combination in option (d) is correct

**S20. Ans.(d)**

**Sol. I.** does not follow – As there is no direct relation Ace and Sky. So, definite relation doesn't follow.

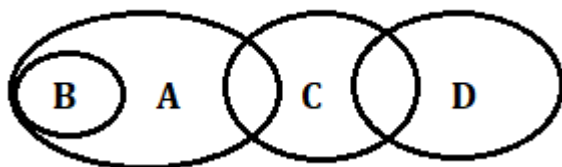
**II.** does not follow – As there is no direct relation Ball and Dream. So, definite relation doesn't follow.



**S21. Ans.(d)**

**Sol. I.** does not follow – Some part of A i.e., B is restricted for relation with anyone. So, it does not follow also in possibility.

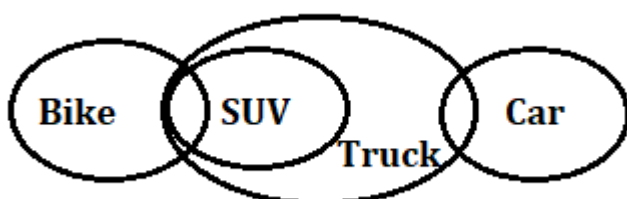
**II.** does not follow – B is restricted for relation with anyone. So, it does not follow also in possibility.



**S22. Ans.(b)**

**Sol. I.** does not follow – As there is no direct relation between SUV and Car. So, definite relation doesn't follow.

**II.** follow- All SUV is part of Truck and some part of SUV is Bike. Therefore, Some Truck is also Bike.



**S23. Ans.(c)**

**Sol.** Given word-RHOMBUS

After arrangement- USROMHB

The third letter from the right end is M

The second letter to the left of M is R

**Directions (24-26) :**

**Final arrangement:**

$D (182) > A (179) > F > C > E (161) > B > G (154)$

**Clues:** E is taller than B. Two persons have height between E and A. F is just shorter than A.

**Inference:** From the above conditions we have two possible cases

**Case 1:**  $A > F > \_ > E > B$

**Case 2:**  $E > B > \_ > A > F$

**Clues:** G's height is 7cm less than E. G is just shorter than B. D's height is 182cm. A's height is 3cm less than D's height. E's height is 18cm less than A's height.

**Inference:** So, case 2 gets eliminated here.

**Case 1:**  $D (182) > A (179) > F > \_ > E (161) > B > G (154)$

~~Case 2:  $E (x) > B > G (x-7) > A (179) > F$~~

**Clue:** C is one of the persons.

**Inference:** Thus, the final arrangement is:

$D (182) > A (179) > F > C > E (161) > B > G (154)$

**S24. Ans.(b)**

**Sol.**  $A (179) + E (161) + G (154) = 494\text{cm}$

**S25. Ans.(c)**

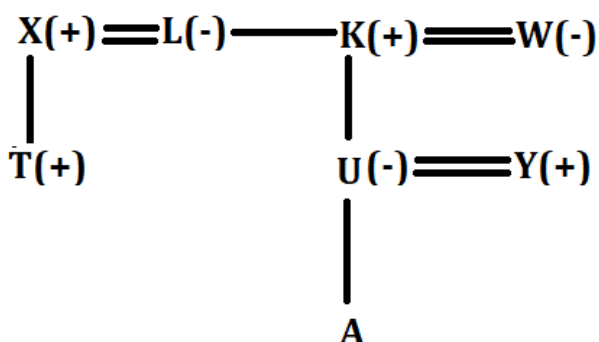
**Sol.** F is the third tallest.

**S26. Ans.(e)**

**Sol.** Possible height of B will be 158cm.

**Directions (27-28) :**

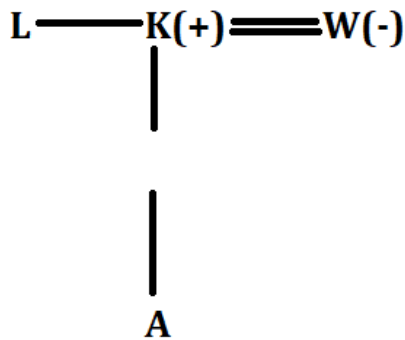
**Final arrangement:**



**Explanation:**

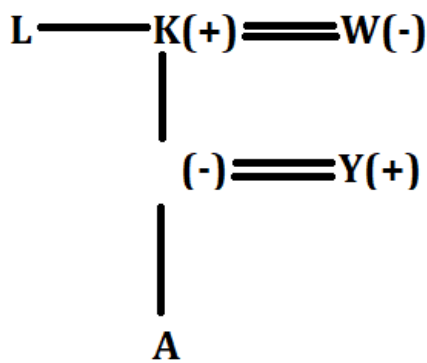
**Clues:** A is grandchild of K. L is only sibling of K. W is sister-in-Law of L.

**Inference:** From the above conditions it is clear that K is grandfather of A.



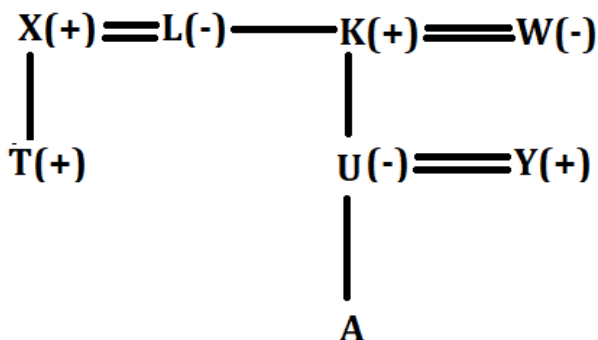
**Clues:** Y is Son-in-Law of W. There is no uncle or aunt of A.

**Inference:** From the above conditions it is clear that K has only one child.



**Clues:** Y is married to U. L is mother of T. U and T are of different gender. There is no single parent in the family.

**Inference:** From the above conditions it is clear that U is daughter of K and T is son of L who is wife of X. So, Final arrangement:



**S27. Ans.(a)**

**Sol.** Y is Son-in-law of K

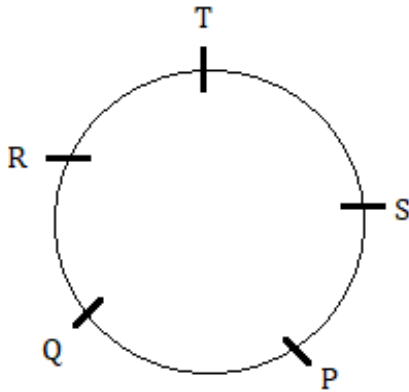
**S28. Ans.(d)**

**Sol.** A is either Grandson or Granddaughter of W

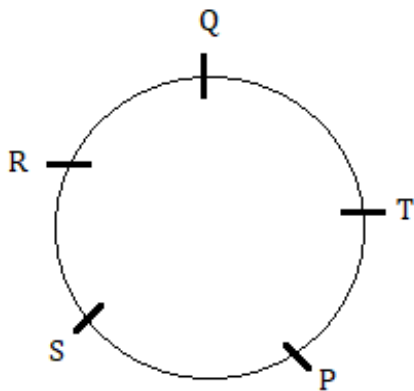
S29. Ans.(c)

Sol. Either in statement I alone or in statement II alone is sufficient to answer the question.

Statement I:



Statement II:



S30. Ans.(e)

Sol. Statement I and II together are not sufficient to answer the question.

S31. Ans.(b)

Sol.

ATQ,

$$(x+6) + 10 = 30$$

$$x = 14$$

$$\text{So, present age of P} = (14+6) + 4 = 24 \text{ years}$$

S32. Ans.(d)

Sol.

$$\text{Given, } \frac{24}{100} \times A = \frac{14}{100} \times B + 2$$

$$12A - 7B = 100 \text{ ---- (i)}$$

$$A + B = 800$$

$$B = 800 - A \text{ -----(ii)}$$

From (i) and (ii) we get

$$12A - 5600 + 7A = 100$$

$$19A = 5700$$

$$A = 300$$

$$\text{And, } B = 800 - 300 = 500$$

### S33. Ans.(a)

**Sol.** Let one day work of a man and a woman be  $2x$  unit &  $x$  unit

$$\text{ATQ, } 2x \times (2n + 1) \times 6 = x \times (3n - 1) \times 9$$

$$8n + 4 = 9n - 3$$

$$n = 7$$

$$\text{So, total work} = (2 \times 7 + 1) \times 6 \times 2x = 180x \text{ unit}$$

$$\text{Required days} = 180x \times \frac{16}{9} \times \frac{1}{(2 \times 7 + 2) \times 2x}$$

$$= 320x \times \frac{1}{32x} = 10 \text{ days}$$

### S34. Ans.(b)

$$\text{Sol. Cost price of the article} = 455 \times \frac{100}{(100-35)} = 700 \text{ Rs.}$$

$$\text{Selling price of the article} = 700 + 140 = 840 \text{ Rs.}$$

$$\text{Total discount allowed by man in the article} = 1000 - 840 = 160$$

$$\text{Required discount percentage} = \frac{160}{1000} \times 100 = 16\%$$

### S35. Ans.(e)

$$\text{Sol. Profit share ratio of A to that of B} = (x+200) \times 12 : (x + 400) \times 8$$

$$= 12x + 2400 : 8x + 3200$$

$$\text{ATQ, } \frac{12x+2400}{8x+3200} = \frac{5}{4}$$

$$48x + 9600 = 40x + 16000$$

$$8x = 6400$$

$$x = 800 \text{ Rs.}$$

$$\text{So, sum of investment of A and B} = (800+200) + (800+400) = 2200 \text{ Rs.}$$

### S36. Ans.(a)

**Sol.** ATQ,

Let the quantity of milk and water be  $9x$  and  $7x$  respectively

ATQ,

$$\frac{9x+15}{7x+5} = \frac{3}{2}$$

$$18x + 30 = 21x + 15$$

$$3x = 15$$

$$x = 5$$

$$\text{The quantity of milk in initial mixture} = 9 \times 5 = 45 \text{ liters}$$

**S37. Ans.(e)**

**Sol.** Let speed of stream =  $s$  km/hr

So, speed of boat in still water =  $s \times 4 = 4s$  km/hr

$$\text{ATQ, } \frac{75}{5s} = 6$$

$$30s = 75$$

$$s = 2.5 \text{ km/hr}$$

So, speed of boat in still water =  $4 \times 2.5 = 10$  km/hr

$$\text{Required time} = \frac{60}{(10-2.5)} = 8 \text{ hours}$$

**S38. Ans.(c)**

**Sol.** Let length of the train =  $L$  meters

$$\text{ATQ, } 72 \times \frac{5}{18} = \frac{L \times 2}{15}$$

$$2L = 300$$

$$L = 150 \text{ meters}$$

$$\text{Also, } 72 \times \frac{5}{18} = \frac{X+150}{20}$$

$$X + 150 = 400$$

$$X = 250 \text{ meters}$$

**S39. Ans.(e)**

**Sol.**

ATQ,

$$(X+300) \times \frac{10 \times 4}{100} = (X-180)$$

$$\frac{2X}{5} + 120 = X - 180$$

$$\frac{5X-2X}{5} = 300$$

$$3X = 1500$$

$$X = 500 \text{ Rs.}$$

$$\text{Required interest} = (500 - 180) = 320 \text{ Rs.}$$

**S40. Ans.(d)**

**Sol.** Pattern of series –

$$1 \times 5 + 1 = 6$$

$$6 \times 4 + 1 = 25$$

$$25 \times 3 + 1 = 76$$

$$? = 76 \times 2 + 1 = \mathbf{153}$$

$$153 \times 1 + 1 = 154$$

**Solutions (41-45) :**

Selling price of A =  $800 \times \frac{20}{100} = 160$  Rs.

Selling price of B =  $800 \times \frac{30}{100} = 240$  Rs.

Selling price of C =  $800 \times \frac{35}{100} = 280$  Rs.

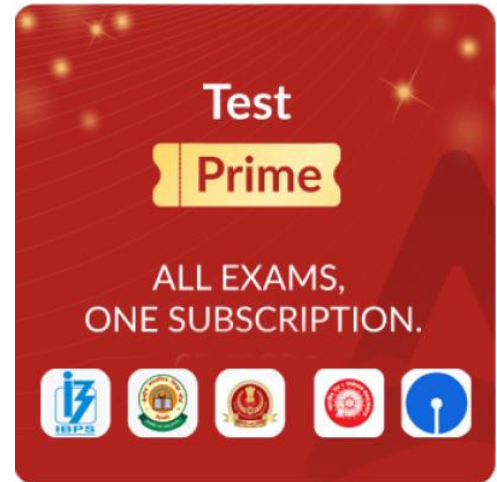
Selling price of D =  $800 \times \frac{15}{100} = 120$  Rs.

Cost price of A =  $160 \times \frac{100}{160} = 100$  Rs.

Cost price of B =  $240 \times \frac{100}{120} = 200$  Rs.

Cost price of C =  $280 \times \frac{100}{140} = 200$  Rs.

Cost price of D =  $120 \times \frac{100}{125} = 96$  Rs.



**S41. Ans.(a)**

**Sol.** Required difference =  $200 - 96 = 104$  Rs.

**S42. Ans.(b)**

**Sol.** Required percentage =  $\frac{240-200}{200} \times 100 = 20\%$

**S43. Ans.(c)**

**Sol.** Selling price of X =  $120 + 60 = 180$  Rs.

Cost price of X =  $100 + 20 = 120$  Rs.

Required profit percentage =  $\frac{180-120}{120} \times 100 = 50\%$

**S44. Ans.(d)**

**Sol.** Required ratio =  $96 : 160 = 3 : 5$

**S45. Ans.(e)**

**Sol.** Required average selling price =  $\frac{240+120}{2} = 180$  Rs.

