

CLEFT SENTENCE, whose purpose is to place emphasis on the main clause complement. Hence, option (4) is the most suitable answer choice.

17. (1) Statements (II) and (III) contains errors in them. It is to be noted that the statement (II) is describing an incident of past, thus 'will' should be replaced with 'would'. Moreover, in statement (III) while using the phrase "as well as", the verb must be complied with the noun previous to the phrase. Therefore, to make the sentence grammatically correct, replace 'are primates' with 'is a primate'. Statement (I) is grammatically and contextually correct. Hence, option (1) is the most viable answer choice.
18. (2) Among all the statements, sentences (I) and (III) are grammatically correct and contextually meaningful, while there is an error in sentence (II). To make sentence (II) contextually correct replace 'effect' with 'affect' as affect can either mean "to influence" or "to act in a way that you don't feel." Effect typically means "a result." Since, sentence (I) and (III) are correct, option (2) becomes the most suitable answer choice.
19. (3) Statements (I) and (II) contains error in them. To make statement (I) grammatically correct replace "through" with "for", as "through" is used when moving in one side and out of the other side of (an opening, channel, or location), while 'for' is used to indicate time or duration. Moreover, in statement (II) the subject [construct of Indian nationalism] is singular, therefore, to comply with the rule of subject-verb agreement the verb associated with it should also be singular. Thus, "consist" should be replaced with its singular form i.e., "consists". Sentence (III) is grammatically correct and contextually meaningful. Hence, option (3) becomes the most viable answer choice.
20. (5) All the given sentences are grammatically correct and contextually meaningful; thus, they do not require any corrections. Hence, option (5) becomes the most feasible answer choice.
21. (2) **Option (2)** is the correct choice. **'Track down'** means to find something or someone after looking for it, him, or her in a lot of different places.
Founded means establish or originate (an institution or organization).
Footprint means the impression left by a foot or shoe on the ground or a surface.
Overlooked means failed to notice.
22. (3) **Option (3)** is the correct choice. Here the author talks about scans of the skeleton of an animal and later describes about its characteristics, so the word **"revealed"** fits the best, as the scans will reveal something then only anyone would know about the characteristics of the animal.
Leaked means become known.
Confronted means come face to face with (someone) with hostile or argumentative intent.
Concealed means kept secret; hidden.
23. (3) **Option (3)** is the correct choice. **"Wrote"** is the word that fits the best here as the author talks about a science journal Nature afterwards. So, things are written in a science journal.
Autographed means a signature, especially that of a celebrity written as a memento for an admirer.

Associated means (of a person or thing) connected with something else.

Determined means having made a firm decision and being resolved not to change it.

24. (5) **Option (5)** is the correct choice. **"Dragged"** is the word that fits best in the context of the passage as here the author talks about some finding which took the research group several million years back in the past.

Yawned means involuntarily open one's mouth wide and inhale deeply due to tiredness or boredom.

Comered means (of a person or animal) forced into a place or situation from which it is hard to escape.

25. (1) **Option (1)** is the correct choice. Here the author is talking about a timeline since when the lizards have lived on this planet, so **"inhabited"** is the word that fits the best in the context of the passage.

Settled means sit or come to rest in a comfortable position.

26. (4) **Option (4)** is the correct choice. Here the author is talking about Megachirella, an ancestor of lizard and we can see that the whole paragraph is about the discovery of this species, so **"discovered"** is the word that fits best in the context of the passage.

Overlooked means fail to notice.

Curtained means conceal or screen with a curtain.

27. (2) **Option (2)** is the correct choice. **"Compacted"** is the word that fits best in the context of the passage, as we know that the species Megachirella was discovered through its fossil and in fossils, usually skeletons are compacted in layers of sand and clay.

Compacted means become compressed by the exertion of force.

Flattened means make or become flat or flatter.

Condensed means made denser or more concise; compressed or concentrated.

Abbreviated means shortened; cut short.

28. (5) **Option (5)** is the correct choice. **"Realized"** is the word that fits best in the context of the passage, as you realize things (some feature) after looking at something, as mentioned in the passage.

Puzzled means unable to understand; perplexed.

Masked means (of one's true character or feelings) concealed.

Accomplished means highly trained or skilled in an activity.

29. (4) **Option (4)** is the correct choice. **"Detailed"** is the word that fits best in the context of the passage, as the scientists hooked up with his colleagues to perform analysis on the skeleton to gain detailed knowledge.

Complicated means involving many different and confusing aspects.

Unvarnished means not covered with varnish.

30. (1) **Option (1)** is the correct choice. **"Embedded"** is the word that fits best in the context of the passage. Embedded means fix (an object) firmly and deeply in a surrounding mass. Fossils are normally embedded in rocks when they are found.

Detached means separate or disconnected.

Dislodged means knock or force out of position.

Uprooted means pull (something, especially a tree or plant) out of the ground.

31. (5) (i) $x^2 - 12x + 32 = 0$
 $x^2 - 8x - 4x + 32 = 0$
 $x(x - 8) - 4(x - 8) = 0$
 $(x - 8)(x - 4) = 0$
 $x = 8, 4$

(ii) $y^2 - 20y + 96 = 0$
 $y^2 - 12y - 8y + 96 = 0$
 $y(y - 12) - 8(y - 12) = 0$
 $(y - 8)(y - 12) = 0$
 $y = 8, 12$

$y \geq x$

32. (2) (i) $2x^2 - 3x - 20 = 0$
 $2x^2 - 8x + 5x - 20 = 0$
 $2x(x - 4) + 5(x - 4) = 0$
 $(x - 4)(2x + 5) = 0$
 $x = 4, -\frac{5}{2}$

(ii) $2y^2 + 11y + 15 = 0$
 $2y^2 + 6y + 5y + 15 = 0$
 $2y(y + 3) + 5(y + 3) = 0$
 $(2y + 5)(y + 3) = 0$
 $y = -\frac{5}{2}, -3$

$x \geq y$

33. (3) (i) $x^2 - x - 6 = 0$
 $x^2 - 3x + 2x - 6 = 0$
 $x(x - 3) + 2(x - 3) = 0$
 $(x - 3)(x + 2) = 0$
 $x = 3, -2$

(ii) $y^2 - 6y + 8 = 0$
 $y^2 - 2y - 4y + 8 = 0$
 $y(y - 2) - 4(y - 2) = 0$
 $(y - 2)(y - 4) = 0$
 $y = 2, 4$

No relation can be established between x and y

34. (3) (i) $x^2 + 14x - 32 = 0$
 $x^2 + 16x - 2x - 32 = 0$
 $x(x + 16) - 2(x + 16) = 0$
 $(x - 2)(x + 16) = 0$
 $x = -16, 2$

(ii) $y^2 - y - 12 = 0$
 $y^2 - 4y + 3y - 12 = 0$
 $y(y - 4) + 3(y - 4) = 0$
 $(y + 3)(y - 4) = 0$
 $y = -3, 4$

No relation can be established between x and y

35. (1) (i) $x^2 - 9y + 20 = 0$
 $x^2 - 5y - 4y + 20 = 0$
 $x(x - 5) - 4(y - 5) = 0$
 $(x - 4)(x - 5) = 0$
 $x = 4, 5$

(ii) $2y^2 - 12y + 18 = 0$
 $2y^2 - 6y - 6y + 18 = 0$
 $2y(y - 3) - 6(y - 3) = 0$
 $(2y - 6)(y - 3) = 0$
 $y = 3, 3$

$x > y$

36. (2) Let the rate of interest for the 3rd year be x% per annum.
 Total SI = $\frac{20000 \times 10 \times 1}{100} + \frac{20000 \times 20 \times 1}{100} + \frac{20000 \times x \times 1}{100}$
 = Rs. (6000 + 200x)
 CI for 2 years when rate is different for different years.
 $CI = P \left(1 + \frac{R_1}{100} \right) \left(1 + \frac{R_2}{100} \right) - P$
 = $20000 \left(1 + \frac{10}{100} \right) \left(1 + \frac{20}{100} \right) - 20000$
 = Rs 6400

CI for 3rd year
 = $26400 \left(1 + \frac{x}{100} \right) - 26400$
 = 264x

ATQ,
 $\Rightarrow 264x + 6400 - (6000 + 200x) = 1040$
 $\Rightarrow 64x = 640 \Rightarrow x = 10\%$

37. (1)

Milk	Water
70	30
55	
25	15
5	3

Initial quantity of water = $\frac{3}{8} \times 80 = 30$ litre.
 Initial quantity of milk = $\frac{5}{8} \times 80 = 50$ litre.

38. (4) Let the present age of veer be x yr.
 Age of Sneha = $\frac{x - 6}{18}$ yr.

ATQ,
 $\frac{x - 6}{18} + 2 = 5$
 $\Rightarrow x - 6 = 3 \times 18$
 $\Rightarrow x = 60$ yrs.

Age of veer after 6 years = 66 years
 Age of Sneha after 6 years = 3 + 6 = 9 years
 Required ratio = 22 : 3

39. (1)

Let the radius of third ball be x cm.
 ATQ,
 $\Rightarrow \frac{4}{3}\pi(3)^3 = \frac{4}{3}\pi(1.5)^3 + \frac{4}{3}\pi(2.5)^3 + \frac{4}{3}\pi(x)^3$
 $\Rightarrow (3)^3 = (1.5^3 + 2.5^3 + x^3)$
 $\Rightarrow 27 = 3.375 + 15.625 + x^3$
 $\Rightarrow x^3 = 8$
 $\Rightarrow x = 2$ cm

\therefore the diameter of the third ball = 4 cm

40. (3)

The original cost of TV = Rs 6000
 Then, original raw material cost = Rs 2000
 New cost of raw material = $2000 \times \frac{12}{5} = Rs 4800$
 Original manufacturing exp. = Rs 6000 - 2000 = Rs 4000
 New manufacturing exp. = $4000 \times \frac{5}{4} = Rs 5000$
 New cost of TV = 4800 + 5000 = 9800
 Required % = $\frac{3800}{6000} \times 100 = \frac{380}{6} = \frac{190}{3} = 63\frac{1}{3}\%$

41. (4)

Let export of country P in 2011 = 100x
 Export of country P in 2012 = 120x
 Import of country P in 2011 = $\frac{100x}{2} \times 2 = 200x$
 Import of country P in 2012 = $\frac{120x}{2} \times 1 = 60x$
 Chang in Import = $\left(\frac{200x - 60x}{200x} \right) \times 100 = 70\%$

42. (3)

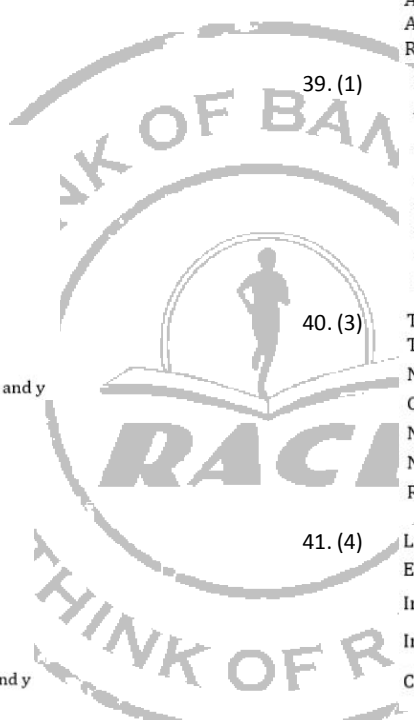
Ratio of export to import of Q in 2014 = $\frac{14}{5}$
 $14 - 5 \rightarrow 36$
 $9 \rightarrow 36$
 $1 \rightarrow 4$
 So, export = $4 \times 14 = 56$ lakh

43. (5)

Let import of country Q in 2013 = 5x
 So, import of country Q in 2015
 = $\frac{125}{100} \times \frac{125}{100} \times 5x$
 = $\frac{125}{16}x$
 Export of country Q in 2013 = 6x
 Export of country Q in 2015
 = $\frac{125}{16}x \times 1.4 = \frac{175}{16}x$
 Required ratio = $\frac{6x}{\frac{175}{16}x} = \frac{96}{175}$

44. (2)

Let export of country P in 2014 be x
 So, import of country P in 2014
 = $\frac{x}{2.5} \times 1 = \frac{2x}{5}$
 Required % = $\frac{2x}{5 \times x} \times 100 = 40\%$



Grand Test – IPP 180811



60. (4) $P(\text{Red}) = \frac{1}{2} \times \frac{4}{7} + \frac{1}{2} \times \frac{2}{5}$
 $= \frac{2}{7} + \frac{1}{5} = \frac{10+7}{35}$
 $= \frac{17}{35}$

61. (1) $? = \frac{5612 - 1394}{740} \times 100 = 570$

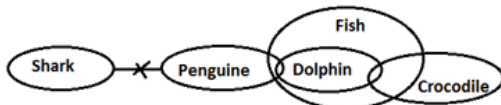
62. (5) $? = 4207 - 3007 = 1200$

63. (1) $? = 21 \times 41 - 89 = 772$

64. (1) $\frac{25}{3} \times \frac{12}{5} + ? = \frac{85}{6} \times \frac{54}{17}$
 $5 \times 4 + ? = 9 \times 5$
 $? = 45 - 20$
 $? = 25$

65. (2) $? = \frac{117 \times 247}{13 \times 65 \times 10} = 3.42$

66. (1)



For I- Since there is no direct relation between the elements Shark and dolphin, therefore we cannot conclude that no Shark is Dolphin.

For II- From the venn diagram, it is clear that some fish are penguin and no shark is penguin. Hence, some fish which are penguin are not shark. So, conclusion II follows.

For III- From the venn diagram, it is clear that All dolphin are fish and some crocodile is dolphin. So, we can say that some Crocodile are Fish. Hence, conclusion III follows.

67. (4)



For I- Since there is no direct relation between the elements thriller and horror, therefore we cannot conclude that some thriller are Horror.

For II- Since there is no direct relation between the elements action and horror, therefore we cannot conclude that some action are Horror.

For III- Since there is no direct relation between the elements thriller and horror, therefore we cannot conclude that No thriller are horror. Hence, conclusion III cannot be concluded.

Since in conclusion I and III we have same elements and it is a case of SOME and NO hence either I or III follows will be concluded.

68. (5)



For I- From the venn diagram, it is clear that all Sizuka are nobita, no nobita is sunio and some sunio are zian which is also not Nobita. Hence, the conclusion I follows.

For II- From the venn diagram, it is clear that all doremon are nobita and no nobita is sunio. Hence, the conclusion II does not follows.

For III- From the venn diagram, it is clear that all doremon is nobita and no nobita is sunio. Hence, some

zian which is sunio is also not nobita. Hence, conclusion III can be concluded.

69-73.

There are three floors between A and C, who likes Honor brand phone. C does not live on an even numbered floor. Two persons lives between E and A. So, there will be four possible cases,

	Case 1	Case 2	Case 3	Case 4
Floor	Person	Person	Person	Person
7	C		A	
6	E			
5		C		A
4		E	E	
3	A		C	Honor
2				E
1		A		C Honor

Now, B does not live on the first floor of the building and does not likes Lenovo brand phone. No two persons lives on the floor immediately above or immediately below according to the English alphabet (i.e. C does not live immediately above or below the floor on which B and D lives). Two persons lives between B and G, who likes Panasonic. G lives one of the floor below B. So, case 2 and case 4 will be eliminated.

	Case 1	Case 3
Floor	Person	Person
7	C Honor	A
6	E	F
5	B Lenovo	B Lenovo
4	F	E
3	A	C Honor
2	G Panasonic	G Panasonic
1	D	D

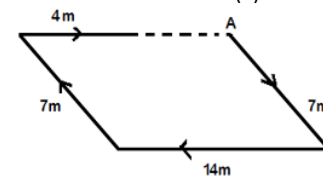
The one who likes Lenovo brand phone lives one of the floor above E. So, case 1 will be eliminated. Continuing with case3. The one who lives immediately above the one like Moto phone likes MI brand phone. A does not like MI brand phone. F does not like Lenovo Nokia brand phone, so A likes Lenovo. E does not like Nokia and Samsung brand phone. The final arrangement is:

Floor	Person	Phones
7	A	Lenovo
6	F	Samsung
5	B	MI
4	E	Moto
3	C	Honor
2	G	Panasonic
1	D	Nokia

69. (1)

71. (3)

74. (3)



$= (14-4) m = 10m$

75. (2)

Total number of children = $[(15+4+8)-1]$
 $= 27 - 1 = 26$

76-80.

Box M is delivered just before Box I in the same month having less than 31 days. Four boxes are delivered between Boxes I and E. Box K is delivered on even date and in the month having 31 days but not in March. Box K is delivered after Box E. H is delivered first. Box D is delivered in the same month as Box E. We get 4 possibilities:

73. (5)

Grand Test – IPP 180811



Month	Case 1		Case 2		Case 3		Case 4	
	18th	29th	18th	29th	18th	29th	18th	29th
January	H		H		H		H	
February	M	I	E	D				
March					E	D		
June			M	I			E	D
September	E	D			M	I		
November							M	I
December	K		K		K		K	

Box B is delivered just before the month in which Box G is delivered but on the same date such that one is delivered in the month having 30 days and another in the month having 31 days. Box G is not delivered the last, so case2 , 3, 4 get eliminated and we get 2 possibilities in case1.

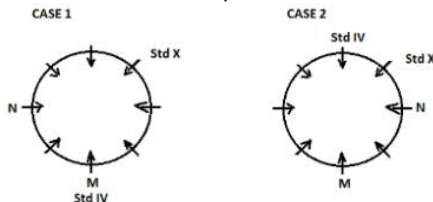
Month	Case 1a		Case 1b	
	18th	29th	18th	29th
January	H		H	
February	M	I	M	I
March	B			B
June	G			G
September	E	D	E	D
November				
December	K		K	

Boxes F, L and D are delivered in exact sequence on the same dates of consecutive months, So, case1b gets eliminated. Five boxes are delivered between Boxes C and A, but the boxes delivered in the months having 30 days are excluded, So, box C or box A are placed either on 29th January or 29th December, but the number of boxes delivered between Boxes C and F is less than those delivered between Boxes A and F. So, C is delivered before A. Box N is one of the boxes and does not delivered on the same date on which box A is delivered. Box J is delivered in the month having 30 days but not just after Box G, So box J is delivered on 29th November. The final arrangement is:

Month	18th	29th
January	H	C
February	M	I
March	B	F
June	G	L
September	E	D
November	N	J
December	K	A

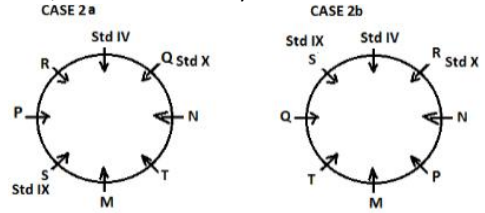
- 76. (1)
- 77. (2)
- 78. (2)
- 79. (5)
- 80. (1)

81-85. M sits third to the left of the one who study in Std. X. Only one person sits between M and N, who sits second to the left the one who study in Std. IV.

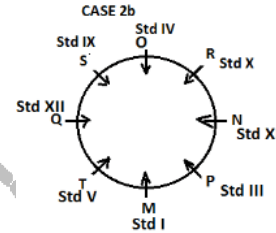


Only two persons sits between T and the one who study in Std. IV. T does not study in Std. X. S studies in Std. IX and sits second to the left of T. So, case 1 will be eliminated and there will be two possibilities in case 2.

Now, S sits second to the right of R. Q sits third to the left of P, who does not study in Std. IV.

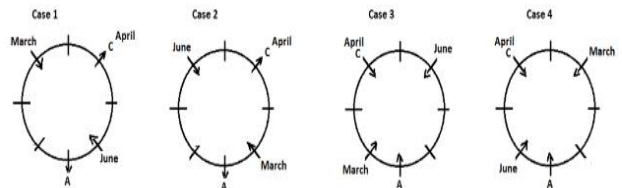


The one who studies in Std. V sits third to the right of O and second to the left of the one who studies in Std. III. So, from these case 2a will be eliminated. The one who studies in Std. I sits second to the left of the one who studies in Std. XI. The one who studies in Std. XII faces the one who studies in Std. XI.



- 81. (4)
- 82. (1)
- 83. (5)
- 84. (2)
- 85. (3)
- 86. (2) I. $H \leq Y$ (False)
II. $H < M$ (True)
- 87. (5) I. $B < C$ (True)
II. $S > P$ (True)
- 88. (4) I. $R < Z$ (False)
II. $Z \geq R$ (False)
- 89. (2) I. $P > M$ (False)
II. $K < P$ (True)

90-94. C was born in April and sits third to the left of A. Both C and A face same direction. Only one person sits between C and the one who was born in March. The one who was born in the month of march faces the one who was born in the month of June. So, there will be four possible cases.



Only one person sits between G, who was born in one of the months after April having 31 days and the one who was born in June. D was born in the month having 31 days and sits second to the right of G. F faces same direction as A and sits third to the right of D. So, case 1 will be eliminated.

