

Canara Bank PO PGDBF Grand Test – CBPO180209

ANSWER KEY

1. (4)	26. (3)	51. (3)	76. (4)	101. (4)	126. (2)	151. (2)	176. (1)
2. (5)	27. (2)	52. (3)	77. (4)	102. (2)	127. (1)	152. (5)	177. (1)
3. (3)	28. (4)	53. (2)	78. (1)	103. (1)	128. (4)	153. (4)	178. (1)
4. (3)	29. (4)	54. (1)	79. (1)	104. (4)	129. (5)	154. (3)	179. (3)
5. (3)	30. (1)	55. (4)	80. (2)	105. (1)	130. (1)	155. (4)	180. (3)
6. (4)	31. (3)	56. (5)	81. (2)	106. (4)	131. (2)	156. (4)	181. (5)
7. (4)	32. (1)	57. (2)	82. (3)	107. (2)	132. (4)	157. (2)	182. (1)
8. (4)	33. (3)	58. (1)	83. (2)	108. (5)	133. (4)	158. (1)	183. (3)
9. (3)	34. (5)	59. (2)	84. (3)	109. (1)	134. (4)	159. (3)	184. (2)
10. (2)	35. (4)	60. (3)	85. (1)	110. (3)	135. (1)	160. (5)	185. (1)
11. (4)	36. (3)	61. (2)	86. (2)	111. (5)	136. (5)	161. (2)	186. (5)
12. (5)	37. (2)	62. (2)	87. (1)	112. (2)	137. (5)	162. (3)	187. (2)
13. (4)	38. (2)	63. (1)	88. (2)	113. (2)	138. (4)	163. (3)	188. (4)
14. (4)	39. (1)	64. (5)	89. (3)	114. (3)	139. (4)	164. (3)	189. (4)
15. (5)	40. (3)	65. (5)	90. (4)	115. (3)	140. (2)	165. (4)	190. (3)
16. (5)	41. (2)	66. (1)	91. (4)	116. (2)	141. (2)	166. (2)	191. (2)
17. (1)	42. (5)	67. (2)	92. (5)	117. (5)	142. (2)	167. (1)	192. (1)
18. (2)	43. (4)	68. (3)	93. (3)	118. (2)	143. (5)	168. (3)	193. (1)
19. (4)	44. (4)	69. (5)	94. (3)	119. (5)	144. (1)	169. (2)	194. (3)
20. (1)	45. (3)	70. (4)	95. (3)	120. (1)	145. (5)	170. (5)	195. (4)
21. (4)	46. (4)	71. (1)	96. (1)	121. (3)	146. (5)	171. (5)	196. (5)
22. (4)	47. (4)	72. (2)	97. (5)	122. (4)	147. (2)	172. (2)	197. (2)
23. (5)	48. (5)	73. (1)	98. (3)	123. (5)	148. (3)	173. (5)	198. (2)
24. (2)	49. (4)	74. (3)	99. (4)	124. (4)	149. (3)	174. (3)	199. (1)
25. (4)	50. (3)	75. (1)	100. (3)	125. (4)	150. (5)	175. (1)	200. (4)

HINTS & SOLUTIONS

1-5.

Step1:

$\begin{matrix} 9 & 5 \\ 2 & + 7 = 9 \end{matrix}$	$\begin{matrix} 8 & 4 \\ 4 & + 0 = 4 \end{matrix}$	$\begin{matrix} 5 & 4 \\ 3 & + 0 = 3 \end{matrix}$	$\begin{matrix} 3 & 6 \\ 3 & + 0 = 3 \end{matrix}$	$\begin{matrix} 5 & 8 \\ 3 & + 2 = 5 \end{matrix}$	$\begin{matrix} 2 & 5 \\ 2 & + 0 = 2 \end{matrix}$
$\begin{matrix} 9 & 3 \\ 1 & + 0 = 1 \end{matrix}$	$\begin{matrix} 4 & 5 \\ 1 & + 0 = 1 \end{matrix}$	$\begin{matrix} 1 & 2 \\ 1 & + 0 = 1 \end{matrix}$			

Step2:

<p>for I digit of I block</p> <p>→ Subtraction: difference between first digit of first block and first digit of second block $9 - 4 = 5$</p> <p>→ Addition: Add the resultant with first digit of third block $(5 + 1 = 6)$</p> <p>6 6</p>	<p>for II digit of I block</p> <p>→ Subtraction: difference between first digit of first block and second digit of second block $9 - 5 = 4$</p> <p>→ Addition: Add the resultant with second digit of third block $(4 + 2 = 6)$</p>	<p>for I digit of II block</p> <p>→ Subtraction: difference between second digit of first block and first digit of second block $4 - 3 = 1$</p> <p>→ Addition: Add the resultant with first digit of third block $(1 + 1 = 2)$</p> <p>2 4</p>	<p>for II digit of II block</p> <p>→ Subtraction: difference between second digit of first block and second digit of second block $5 - 3 = 2$</p> <p>→ Addition: Add the resultant with second digit of third block $(2 + 2 = 4)$</p>
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Step3:

<p>→ Divide: First digit of first block by second digit of second block $6/4 = 1.5$</p>	<p>→ Divide: Second digit of first block by first digit of second block $6/2 = 3$</p>
<p>Addition: Add both the resultant = $1.5 + 3 = 4.5$</p> <p>4.5</p>	

So the final solution is –

Step1:

$\begin{matrix} 9 & 5 \\ 9 & 3 \end{matrix}$	$\begin{matrix} 8 & 4 \\ 4 & 5 \end{matrix}$	$\begin{matrix} 5 & 4 \\ 1 & 2 \end{matrix}$
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Step 2:

6 6	2 4
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Step 3:

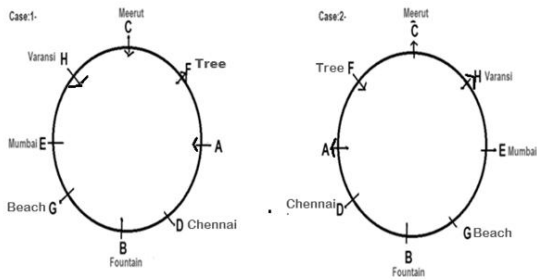
4.5

- 1. (4)
- 3. (3)
- 6-10.

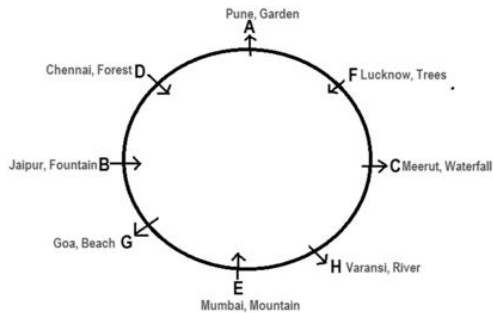
- 2. (5)
- 4. (3)

- 5. (3)

G sits third to the right of C. F sits to the immediate left of C and faces opposite direction of C. The one who belongs to Varanasi sits second to the left of F. H belong to Varanasi and is an immediate neighbour of E. B likes Fountain and sits opposite to the person who belongs to Meerut. As A can't sit near to B so A sits near to F. E belongs to Mumbai. The one who likes trees sits second to the left of H. G does not like Trees. The one who sits second to the right of F belongs to Chennai. The one who likes beach sits third to the left of A, who is facing opposite direction F.



The one who likes Trees does not face outside of the center. So from this condition case-1 will be eliminated. B does not belong to Pune. Only one person sits between the one who belongs to Pune and the one who likes Water fall. Neither F nor G belongs to Pune. So A belongs to Pune. The one who likes Mountain and the one who likes River are sitting adjacent to each other and facing opposite direction to each other. The one who likes Forest sits to the immediate left of the one who belongs to Pune. The one who belongs to Jaipur and the one who belongs to Goa are immediate neighbour of each other. The one who likes river and the one who likes Garden faces same direction. Both D and B faces same direction but opposite to the one who belongs to Meerut. The one who belongs to Lucknow likes Trees. The one who likes Beach faces opposite direction of the one who belongs to Jaipur.



Floor	Persons	Movies	Theaters	Singers
8		Judwaa 2		
7				
6	Q		INOX	
5	N		PVR	Mika
4		Newton	INOX	
3				
2		Dangal		
1	A	Bahubali 2		

(iii) Only one person lives between the one who watch Newton and Dangal. The one watch Dangal does not live on floor number 5 and 6. From this condition case 2 will be eliminated. So in case1:

Floor	Persons	Movies	Theaters	Singers
8		Judwaa 2		Arijit
7	Q		INOX	
6				Mika
5	N		PVR	
4		Newton	INOX	
3				
2		Dangal		
1	A	Bahubali 2		

(iv) C lives below N and lives on even numbered floor but does not watch Newton. The one, who watch movie in Cinepollis, lives on an odd numbered floor but not on floor number 3. So only possible place is 1st floor. The one who watches movie in Cinepollis has favourite singer Diljit. L watches PK. L and the one who watch Sultan both watch movie in BIG. One of the persons, who watches movie in BIG has favourite singer Neha.

(v) Neither P nor M watch Judwaa 2. P lives on an even numbered floor but neither watch movie in INOX nor PVR. Clearly P watch Sultan and watch movie in BIG and L has favourite singer Neha. C does not watch movie in PVR and has favourite singer Monali. Both who watches movie in INOX has favourite singers Sonu and Arman. The one who watch movie in INOX does not watch Padmavati. The one who has favourite singer Sonu lives on an odd numbered floor. So final arrangement are-

Floor	Persons	Movies	Theaters	Singers
8	X	Judwaa 2	PVR	Arijit
7	Q	Golmal 4	INOX	Sonu
6	P	Sultan	BIG	Mika
5	N	Padmavati	PVR	Shreya
4	M	Newton	INOX	Arman
3	L	PK	BIG	Neha
2	C	Dangal	INOX	Monali
1	A	Bahubali 2	Cinepollis	Diljit

- 6. (4)
- 7. (4)
- 8. (4)
- 9. (3)
- 10. (2)

11-15. (i) N lives on floor no. 5 and watch movie in PVR. No person lives above the one who watches Judwaa 2 and his favourite singer is Arijit. A live on ground floor and watch Bahubali 2. Q does not live on top floor. The one who lives immediately below Q has favourite Singer Mika.

- 11. (4)
- 12. (5)
- 13. (4)
- 14. (4)
- 15. (5)

(ii) Only two people live between Q and the one who watches Newton and both watch movie in INOX. Q lives above the floor of the one who watch Newton. From the above conditions there will be two possible cases:

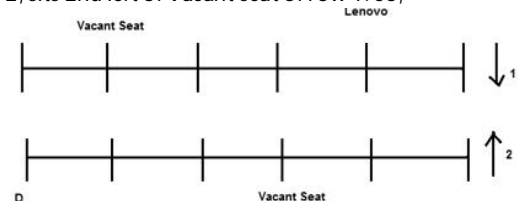
Case 1: When Q lives on 7th floor so the person watch Newton lives on 4th floor.

Floor	Persons	Movies	Theaters	Singers
8		Judwaa 2		Arijit
7	Q		INOX	
6				Mika
5	N		PVR	
4		Newton	INOX	
3				
2				
1	A	Bahubali 2		

Case 2: When Q lives on 6th floor so the person watch Newton lives on 3rd floor.

It is given that the one who has Lenovo sits at 2nd position of a row from left end. There are two persons sit between D and vacant seat, which is immediate neighbor of the one who faces the one who has Lenovo phone.

In this condition, we can see that the one who has Lenovo phone, sits at row 1 and faces South. But the position of Vacant seat in row 2, is not fixed. So it will give two possibilities to place D and vacant seat but in next condition, it is given that Vacant seat is not at any extreme end of the row. So there will be only one possibility. Now, The one who faces the vacant seat of row 2, sits 2nd left of Vacant seat of row 1. So,

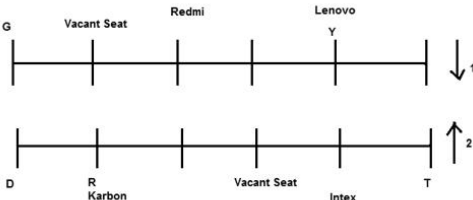


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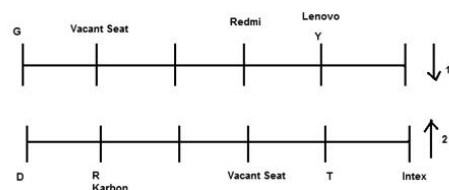


Now, it is given, There are three seats between G and Y. Y faces the one who sits 3rd right of R who has Karbon phone. The one who has Redmi phone faces the one who sits 2nd left of the one who has Intex mobile. There is no friend sit between T and the one who has Intex mobile. Now for the Intex mobile phone, there will be two possibilities.

Case 1,

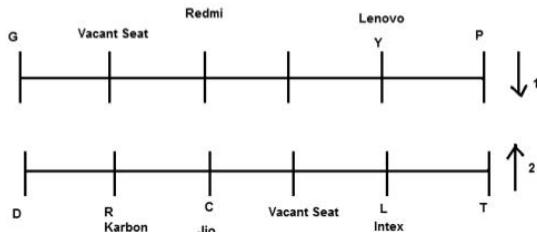


Case 2,

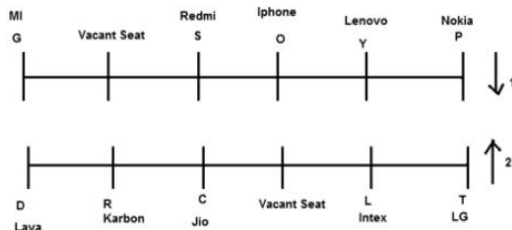


But it is given that C sits 2nd left of L also C and L sit in row 2. So Case 2 will be eliminated.

Now, The one who has Jio phone faces the one who sits 3rd right of P. The one who has Jio phone does not sit at any extreme end. For this condition, again there will be two possibilities but 2nd possibilities again will be eliminated by 2nd condition. So,



Now, The one who has MI phone, is immediate neighbor of Vacant seat. The one who has Nokia faces the one who has LG phone who sits 2nd right of vacant seat. O faces the vacant seat and does not have Lava phone. Then our final answer is



- 16. (5)
- 17. (1)
- 18. (2)
- 19. (4)
- 20. (1)

21-25.

Q has Ball in Sunil gawasker's home and has not Hockey stick and Football in Anil kumble's home. S has Shuttlecock in Sunil gawasker's home and has Stump in Anil kumble's home. V has Bat in Sunil gawasker's home and T has Bat in Anil kumble's home. U does not have any Football.

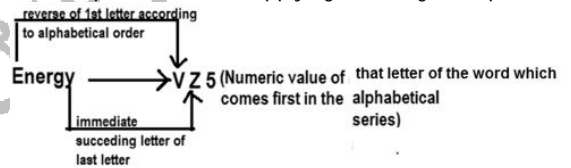
Person	Sport Items	
	Sunil gawasker's home	Anil Kumble's home
P		
Q	Ball	Hockey(x), Football(x)
R		
S	Shuttlecock	Stump
T		Bat
U	Football(x)	Football(x)
V	Bat	

Ball and Bat is not the combination of sports item of any of the person has in Sunil gawasker's home and Anil kumble's home. None of the person have same sports item in Anil Kumble's home and Sunil gawasker's home. Sports item of T in Sunil gawasker's home and sports item of R in Anil kumble's home is same. As U cannot have football and Sports item of P in Sunil gawasker's home and sports item of U in Anil kumble's home is same so Sports item of P in Sunil gawasker's home and sports item of U in Anil kumble's home can be either Net or Badminton. And the rest Sports item of T in Sunil gawasker's home and sports item of R in Anil kumble's home will be Football. Remaining P in Anil kumble's home will have Ball and V in Anil kumble's home will have Hockey. Q will have either Net or Badminton. Both U and R can have in Sunil gawasker's home Helmet/Net/Badminton.

Person	Sport Items	
	Sunil gawasker's home	Anil Kumble's home
P	Net/Badminton	Ball
Q	Ball	Badminton/Net
R	Badminton/Net/Helmet	Football
S	Shuttlecock	Stump
T	Football	Bat
U	Badminton/Net/Helmet	Net/Badminton
V	Bat	Hockey stick

- 21. (4)
- 22. (4)
- 23. (5)
- 24. (2)
- 25. (4)
- 26-30.

These are the latest pattern of coding-decoding questions. In these questions we are applying following concept:-



- 26. (3)
- 27. (2)
- 28. (4)
- 29. (4)
- 30. (1)
- 31. (3)

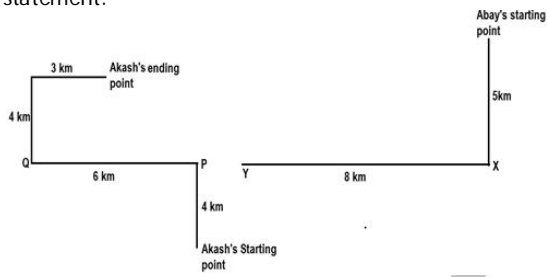
For I- This statement could not be the reason of the given statement as it defines that Indian civilization is society-oriented and not politically dominated whereas given statement is concerned that nationalism can neither be imposed by law nor implemented by decree or be enforced by a dictum.

For II- This statement could be the reason of the given statement as it defines that such attempts are unnecessary since our concepts of nationalism and national identity predate the modern-postmodern constructs of identity."

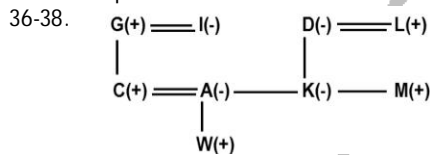
For III- This statement could not be the reason of the given statement as it defines that concept of nationalism is a new phenomenon in Indian civilization.

32. (1) For I-This statement can't be deduced from the given statement as nothing is mentioned about his next time withdrawal of certification in the given statement.
 For II- This statement also can't be deduced from the given statement as it is not mentioned in the given statement.
 For III- This statement can be deduced from the given statement as it states that Mr. Trump's continued attack on the Iran deal and he is undermining the global non-proliferation regime which is also mentioned in the give statement.

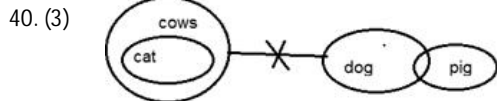
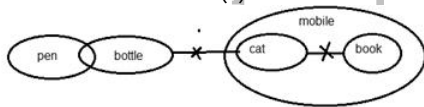
33-34.



33. (3)
 34. (5)
 35. (4) Most logically such comparison should reveal mortality rate per thousand doctors indulged in SARS treatment and not indulged in treatment. So, statement (d) is the correct option.



36. (3)
 37. (2)
 38. (2)
 39. (1)



40. (3)
 41-45. Step-1:- Eight members i.e. A, B, C, D, E, F, G and H, all of them are arranged alphabetically from top to bottom. C born in 2000 and stayed in room no. 208. Two persons between C and the person who stays in room no. 307 who likes Grey colour. There are four persons between the one who like Blue colour and G. G does not like Green and Purple colour. Neither F nor G was born on 1979. Neither C nor D likes black colour.

Members	Year of Born	Room no.	Colour
A	1979	202	Black
B	1990	101/301	Blue
C	2000	208	Pink/Red
D	1988	206	Pink/Red
E	1971	305/109	Green
F	1986	307	Grey
G	1998	101/301	Yellow
H	2007	305/109	Purple

41. (2)
 42. (5)
 43. (4)
 44. (4)
 45. (3)
 46. (4)

For I-This statement supports the given statement as it describes that only laws are not enough to end superstition from society but the law will help in curbing the prevalence of inhuman rituals and practices which is also mentioned in the given statement.

For II- This statement neither strengthens nor negates the given statement but provides the information regarding The Karnataka Prevention and Eradication of Inhuman Evil Practices and Black Magic Bill, 2017 which has been approved by the assembly.

For III- This statement supports the given statement as it describes that ultimately education and awareness that can truly liberate a society from superstition which is also mentioned in the given statement that social reform must be more broad-based to eradicate superstition from society.

(1), (2) and (3) are not the assumptions underlying the conclusions.(4) is the correct assumption as it is assumed by the passage that the conditions which are necessary for life on earth are also necessary for life on other planet.

Description: We have to find from the given point, which point can be assumed from the given passage. For I- As mentioned in above given paragraph that this was project was launched in a rally before Assembly polls in the state. So it may be launched as keeping state election in mind.

For II- As it is mentioned by PM Modi this project will save time and petrol. So, it can be assumed as this project is for the convenience of people.

For III-There is no hint from PM Modi about implementation of Ferry service in all over India. So, it can't be assumed.

Description: We have to choose that point which nullifies the intention of PM Modi for development in Gujrat.

For I- It nullifies because it shows a negative side of BJP govt. as there was no development in projects after winning election in UP.

For II- It has no direct contact with the theme which was mentioned above.

For III- It is out of the context of theme which was mentioned above.

47. (4)
 48. (5)
 49. (4)
 50. (3) Extensive use of antibiotics causes antibiotic resistance when an antibiotic loses its ability to kill or control bacterial growth. This resistance spreads through bacteria population both vertically and horizontally. What can be done to prolong the effectiveness of antibiotics? It can be inferred that the ongoing use of a 'particular antibiotic will not be effective against future generations of bacteria which have an innate resistance to that antibiotic. What would be effective against them? If a different antibiotic is used, bacteria resistant to one type of antibiotic could be killed. This can continue as the antibiotics are changed. Option (1) will not help because the bacteria are already resistant. Option (2) is irrelevant since use of antibiotics is a part of the argument, so leaving infections untreated is not relevant to the argument. Option (3) can extend the effectiveness of antibiotics. Since developing resistance is applicable, to both strong and mild antibiotics, option (4) is irrelevant.

Members	Year of Born	Room no.	Colour
A			
B			Blue
C	2000	208	Black
D			Black
E	1979		
F	1979	307	Grey
G	1979		Green/Purple
H			

Step-2:- The one who's age is 28yr less than H's age stay on room no 202 and like black colour. Difference between B's room and G's room no. is 200. Persons born in odd year likes Green and Purple colour in increasing order of the years except A. E and H lives in odd no. room. F is two years older than D. Person who born in 1998 likes Yellow colour. E is elder than C. D does not born in 1990.

51. (3) Let, the no. of floors originally be x
 And the no. of rooms/floor originally be y
 A.T.Q.,
 $xy = 500$
 Also, $(x - 5) \times (y + 5) = \frac{90}{100} \times 500 = 450$
 $\Rightarrow xy + 5x - 5y - 25 = 450$
 $\Rightarrow 5(y - x) = 25$
 $\Rightarrow y - x = 5$
 Going by the options, the answer is option (c).

52. (3) Let the additional no. of rooms to be put in is x
 $(20 - 5) \times (30 + x) = 500 \times \frac{120}{100}$
 $\Rightarrow 15 \times (30 + x) = 600$
 $\Rightarrow 450 + 15x = 600$
 $\Rightarrow 15x = 150$
 $\Rightarrow x = 10$

53. (2) Avg. speed of scooterist = $\frac{110}{2 + \frac{1}{4}}$
 $= \frac{110 \times 4}{9}$
 $= \frac{440}{9}$ km/hr
 Avg. speed of motorist = $\frac{100}{2 + \frac{1}{4}}$
 $= \frac{400}{9}$
 Required % = $\frac{\frac{440}{9} - \frac{400}{9}}{\frac{400}{9}} \times 100$
 $= \frac{40}{400} \times 100$
 $= 10\%$

54. (1) At 10 : 30 distance covered by scooterist = 70 km
 At 11 : 00 am distance covered by scooterist = 100 km
 At 11 : 00 am distance covered by car = $\frac{140}{2} = 70$ km
 Relative speed = $140 - 40 = 100$ km/hr
 Required time = $\frac{(100-70)}{100}$
 $= \frac{30}{100} = \frac{3}{10}$ hr
 $= 18$ min
 \therefore At 11 : 18 am the car will caught the scooterist

55. (4) Time taken by scooterist to cover the total distance with increased speed = $\frac{120}{\frac{11}{10} \times 48} = \frac{1200}{11 \times 48}$
 Time taken by motorist to cover the total distance with increased speed
 $= \frac{120}{\frac{12}{10} \times 48} = \frac{1200}{12 \times 48}$
 Difference in time = $\frac{1200}{48} \left(\frac{1}{11} - \frac{1}{12} \right) = \frac{1200}{48 \times 132} = \frac{25}{132}$ hr.

56. (5) There will be more than one possibility to be 30 km apart.

57. (2) Let, originally planned time be 't' hrs.
 And original speed be 'x' kmph.
 Then,
 A.T.Q.,
 $t \times x = (t - 1) \frac{5}{4} x$
 $\Rightarrow t = 5$ hrs.

58. (1) Part of the distance covered in 1 hr. = $\frac{1}{5}$
 With, increased speed he can cover whole journey in 4 hr.
 To cover $\frac{4}{5}$ th of the journey he needs $4 \times \frac{4}{5} = 3.2$ hrs.
 Total time taken = $1 + 3.2 = 4.2$ hrs. = 4 hrs 12 minutes

59. (2) Probability of choosing a black ball from bag 1 = $\frac{2}{6} \times \frac{3}{7} = \frac{1}{7}$
 Probability of choosing a black ball from bag 2 = $\frac{4}{6} \times \frac{4}{7} = \frac{8}{21}$
 Total probability = $\frac{1}{7} + \frac{8}{21} = \frac{11}{21}$

60. (3) Probability of choosing a white ball from bag 1 = $\frac{2}{6} \times \frac{4}{7}$
 $= \frac{8}{42}$
 Probability of choosing a white ball from bag 2 = $\frac{4}{6} \times \frac{3}{7}$
 $= \frac{12}{42}$
 Total probability = $\frac{10}{21}$

61. (2) Let, Manoj and Shubham take 'x' hrs. to complete the work working together.
 Let, Manoj does 'm' units per hour.

And Shubham does 'n' units per hour.

A.T.Q, $m(x + 4.8) = (m + n)x$

or, $4.8m = nx$ (i)

also,

$n(x + 10.8) = (m + n)x$

or, $10.8n = mx$

or, $mx = 10.8$ (ii)

Dividing (i) by (ii),

$$\frac{4.8}{x} = \frac{x}{10.8}$$

$$\text{or, } x^2 = 4.8 \times 10.8$$

[This step can be directly applied to these type of questions (Short – cut approach)]

$$x^2 = \frac{48 \times 108}{100}$$

$$\text{or, } x^2 = \frac{12 \times 4 \times 12 \times 9}{100}$$

$$\text{or, } x = \frac{12 \times 3 \times 2}{10} = 7.2 \text{ hrs.}$$

$$\text{Quantity 1} < \text{quantity 2}$$

Quantity 1:
 Using multiplying factors,
 $x \times \frac{110}{100} \times \frac{1000}{900} \times \frac{90}{100} = 1.1x$
 Profit % = 10%

Quantity 2:

$$SP = CP \times \frac{125}{100} \times \frac{90}{100}$$

$$\text{or, } SP = CP \times \frac{5}{4} \times \frac{9}{10}$$

$$\text{or, } SP = 1.125 CP$$

For this man,

$$\text{Profit \%} = \frac{(SP-CP) \times 100}{SP} = \frac{(1.125CP-CP)}{1.125CP} \times 100 = 11.11\%$$

Quantity 1 < Quantity 2

63. (1)

Quantity 1:

Let original duration and speed be 't' hr. and 's' km/hr. respectively.

A.T.Q, $st = 3000$ (i)

Also, $(s - 1000)(t + 1) = 3000$ (ii)

$$\Rightarrow st + s - 100t - 100 = 3000$$

$$\Rightarrow 3000 + s - 100t - 100 = 3000$$

$$\Rightarrow s - 100t = 100$$

Putting 's' from (i),

$$\frac{3000}{t} - 100t = 100$$

$$\Rightarrow 100t^2 + 100t - 3000 = 0$$

$$\Rightarrow t^2 + t - 30 = 0$$

$$\Rightarrow (t + 6)(t - 5) = 0$$

$$\Rightarrow t = 5 \text{ hr.}$$

Quantity 2:

New speed = $\frac{3}{4}$ th of original

Hence, new time = $\frac{4}{3}$ th of original

$$\text{i.e., } \frac{1}{3} \text{th of original time} = \frac{20}{60} = \frac{1}{3}$$

or, Original time = 1 hr.

Quantity 1 > Quantity 2

64. (5) Perimeter of smaller wheel = $2\pi \cdot \frac{7}{2} = 7\pi$ cm
 Perimeter of larger wheel = $2\pi \cdot \frac{14}{2} = 14\pi$ cm
 Let, both take 'x' revolutions per second,
 Then, $(7\pi + 14\pi)10x = 1990.50 - 10.5$
 or, $x = \frac{198}{21\pi} = \frac{198 \times 7}{21 \times 22} = 3$
 speed of smaller wheel = $7\pi \times 3 = 21\pi$ cm./s.
 Quantity 1 = Quantity 2
65. (5) Let there be n people (initially) in the group, then the total earning of the group = $n \times 50$
 Again $n \times 50 = (n - 2) \times 49 + (2x + 45)$
 $\Rightarrow n = 2x - 53$; where x is the lowest earning of any person.
 Now, since $42 < x < 47$ an $n \in$ prime numbers
 Then the only possible value of $n = 37$ for $x = 45$.
66. (1) Let dealer charges the shopkeeper Rs. 1 for 1 unit of item.
 Let, money spent by shopkeeper = Rs. 100
 Then items he got = $\frac{120}{100} \times 100 = 120$
 While selling he gives 80 items at the cost 100 item, total money made by him
 on selling 120 items = $\frac{100}{80} \times 120 =$ Rs. 150
 Profit% = $\frac{150-100}{100} \times 100 = 50\%$
67. (2) Let CP of MI 5 = 100
 \therefore CP of One plus = 150
 SP of MI 5 = 117
 SP of One plus = $\frac{108}{100} \times 150 = 162$
 Required % = $\frac{162-117}{117} \times 100$
 $= \frac{45}{117} \times 100$
 $= 38.46\%$
68. (3) Let SP of Galaxy J5 = 700
 \therefore SP of Xperia X = 500
 \therefore CP of Galaxy J5 = $\frac{100}{112.5} \times 700$
 CP of Xperia X = $\frac{100}{105} \times 500$
 \therefore Required ratio = $\frac{7}{112.5} : \frac{5}{105}$
 $= 735 : 562.5$
 $= 98 : 75$
69. (5) Let CP of MI 5 = 300
 \therefore CP of Redmi A5 = 400
 SP of Redmi A5 = $\frac{130}{100} \times 351 = 456.3$
 Required profit % = $\frac{456.3-400}{400} \times 100 = 14.075\%$
70. (4) CP of iphone 8 = 3000 Rs.
 CP of Samsung S8 = 2000 Rs.
 \therefore Required Ratio = $\frac{110}{100} \times 3000 : \frac{133}{100} \times 2000$
 $= 110 \times 30 : 133 \times 20$
 $= 165 : 133$
71. (1) Let sum invested in B with C.I. = x
 Acc. to question = $1.44x = x \left(1 + \frac{r}{100}\right)^2$
 $r =$ rate of interest of C.I. in B = 20%
 Rate of interest of S.I. in A = 10%
 Interest = $\frac{8000 \times 2 \times 10}{100} + 8000 \left[\left(1 + \frac{20}{100}\right)^2 - 1\right] = 5120$
72. (2) Interest accrued = $\frac{10000 \times 6 \times 15}{100} = 9000$
 First half 4500 on scheme B for 4 years with S.I.
 Interest = $\frac{4500 \times 12 \times 4}{100} = 2160$
 Now ratio of interest received = 3 : 2
 Interest received in scheme C
 $= \frac{2160}{3} \times 2 = 1440$
 Rate of interest in Scheme C = $\frac{1440 \times 100}{4500 \times 4} = 8\%$

73. (1) Let sum invested in each scheme = 100x
 In scheme E
 Amount after 2 year at S.I
 $= 100x + \frac{100x \times 2 \times 10}{100} = 120x$
 Then in C.I. = $120x \left(1 + \frac{20}{100}\right)^2 = \frac{864}{5}x$
 In scheme D
 Amount after 4 years at S.I.
 $= \frac{100x \times 4 \times 15}{100} + 100x = 160x$
 Required ratio = $\frac{864x}{5} : 160x = 27 : 25$
74. (3) Let amount he invested in scheme A with x
 Now
 $778688 = x \left(1 - \frac{8}{100}\right)^3$
 $x = 10,00,000$
 Now this amount is the interest received from scheme D and E with S.I.
 Let amount invested in both scheme = y
 Total interest earn in 4 years from both scheme
 $10,00,000 = \frac{y \times 15 \times 4}{100} + \frac{y \times 10 \times 4}{100}$
 $y = 10,00,000$
 sum he invested = 20,00,000
75. (1) Let Initial sum = 100x
 After 7 year Amount
 $= 100x + \frac{194}{100} \times 100x = 294x$
 In scheme C with C.I.
 Rate of interest = 40%
 Time = 2 year
 Now,
 $294x = y \left(1 + \frac{40}{100}\right)^2$
 $y =$ sum invested in scheme C with C.I.
 $y = 150x$
 amount get from scheme (with S.I.)
 Interest = $180x - 100x = 80x$
 $50x = \frac{100x \times R \times 15}{100}$
 $R = 10\%$
 $R =$ rate of interest for scheme C in S.I.
76. (4) I. $x^2 + 3x + 2x + 6 = 0$
 $\Rightarrow x(x+3) + 2(x+3) = 0$
 $\Rightarrow (x+3)(x+2) = 0$
 $\Rightarrow x = -2$ or -3
- II. $y^2 + y + 2y + 2 = 0$
 $\Rightarrow y(y+1) + 2(y+1) = 0$
 $\Rightarrow (y+1)(y+2) = 0$
 $\Rightarrow y = -1$ or -2
 Obviously $x \leq y$
77. (4) I. $4x^2 - 8x + 3 = 0$
 $\Rightarrow 4x^2 - 6x - 2x + 3 = 0$
 $\Rightarrow 2x(2x-3) - 1(2x-3) = 0$
 $\Rightarrow (2x-1)(2x-3) = 0$
 $\therefore x = \frac{1}{2}$ or $\frac{3}{2}$
- II. $2y^2 - 7y + 6 = 0$
 $\Rightarrow 2y^2 - 4y - 3y + 6 = 0$
 $\Rightarrow 2y(y-2) - 3(y-2) = 0$
 $\Rightarrow (2y-3)(y-2) = 0$
 $\therefore y = 2$ or $\frac{3}{2}$
 $y \geq x$

78. (1) I. $4x + 2y = 51$
 II. $15y + 13x = 221$
 Multiplying equation I by 15 and II by 2 and apply (I - II).

$$\begin{array}{r} 60x + 30y = 765 \\ 26x + 30y = 442 \\ \hline 34x = 323 \end{array}$$

$$\Rightarrow x = \frac{323}{34} = 9.5$$

From equation I,
 $4 \times 9.5 + 2y = 51$

$$\Rightarrow 38 + 2y = 51$$

$$\Rightarrow 2y = 51 - 38$$

$$\Rightarrow y = \frac{13}{2} = 6.5$$

Clearly, $x > y$.

79. (1) I. $x^2 - 14x + 48 = 0$
 $\Rightarrow x^2 - 8x - 6x + 48 = 0$
 $\Rightarrow x(x - 8) - 6(x - 8) = 0$
 $\Rightarrow (x - 6)(x - 8) = 0$
 $\therefore x = 6$ or 8

- II. $y^2 - 5y + 6 = 0$
 $\Rightarrow y^2 - 3y - 2y + 6 = 0$
 $\Rightarrow y(y - 3) - 2(y - 3) = 0$
 $\Rightarrow (y - 2)(y - 3) = 0$
 $\therefore y = 2$ or 3

Clearly, $x > y$

80. (2) I. $x^2 - 1 = 0$
 $\Rightarrow (x + 1)(x - 1) = 0$
 $\Rightarrow x = -1$ or 1

- II. $y^2 + 4y + 3 = 0$
 $\Rightarrow y^2 + 3y + y + 3 = 0$
 $\Rightarrow y(y + 3) + 1(y + 3) = 0$
 $\Rightarrow (y + 1)(y + 3) = 0$
 $\Rightarrow y = -1$ or -3

Clearly, $x \geq y$

81. (2) Original company price = $1660 \times \frac{100}{83} = 2000$ Rs.
 SP = $2000 \times \frac{107}{100} = 2140$ Rs.

82. (3) Ratio of distance covered by second train to that of first train = $1.25 : 1 = 5 : 4$

Since time is same,

Ratio of their speeds is also $5 : 4$

Speed of second train = $40 \times \frac{5}{4} = 50$ km/hr.

Distance covered by first train till half an hour = 20 km.

Let, third train takes 't' hrs. to overtake first train.

And speed of third train be x km/hr.

$$\text{Then, } \frac{20}{x-40} = t \dots\dots\dots(i)$$

Distance covered by second train till half an hour = 25 km.

$$\frac{25}{x-50} = t + \frac{3}{2} \dots\dots\dots(ii)$$

Solving (i) and (ii)

$$x = 60 \text{ km/hr, } t = 1$$

83. (2) Distance covered by third train = $60 \times \left(1 + \frac{3}{2}\right)$ km
 $= 60 \times \frac{5}{2}$
 $= 150$ km.

84. (3) $4m + 10w = \frac{1}{12}$
 $6m + 12w = \frac{1}{9}$

$$m = \frac{1}{108}, w = \frac{1}{216}$$

x men and 6 women per day

$$\text{work} = \frac{x}{108} + \frac{6}{216} = \frac{2x+6}{216}$$

$$\frac{2x+6}{216} = \frac{1}{12}$$

$$x = 6$$

85. (1) Let A takes x days to complete the work.
 \therefore B takes 2x days
 From the question, C takes to complete the work
 $= \frac{2x \times x}{2x+x} = \frac{2}{3}x$ days
 Now, applying the given rule, we have

$$\frac{x \times 2x \times \frac{2}{3}x}{x \times 2x + 2x \times \frac{2}{3}x + x \times \frac{2x}{3}} = 7$$

86. (2) Let the present age of father and Son be x & y years respectively.
 $\therefore x - 5 = 5(y - 5) \Rightarrow 5y - x = 20 \dots\dots(i)$
 and, $x = 3y \dots\dots(ii)$
 so, from (i) and (ii)
 $y = 10$ years and $x = 30$ years.

87. (1) Given that
 $16 = \frac{P \times 10^2}{100^2}$
 $\Rightarrow P = \text{Rs. } 1600$

When compounded half yearly,

$$\text{C.I.} = 1600 \left[\left(1 + \frac{5}{100}\right)^4 - 1 \right]$$

$$= \text{Rs. } 344.81$$

$$\therefore \text{Required difference} = 344.81 - 0.2 \times 1600$$

$$= \text{Rs. } 24.81$$

88. (2) Amount of water from three pipes is 4 units, 9 units and 16 units.
 Let capacity of cistern be x units.

$$\therefore \frac{x}{58} = 16$$

$$\Rightarrow x = 928 \text{ units.}$$

In 1 minute quantity to be filled by 3 pipes = 29 units

$$\therefore \text{Total time required} = \frac{928}{29} = 32 \text{ minutes}$$

$$\frac{30}{x-y} + \frac{44}{x+y} = 10 \dots(i)$$

$$\frac{40}{x-y} + \frac{55}{x+y} = 13 \dots(ii)$$

On (i) $\times 4 -$ (ii) $\times 3$

$$x + y = 11 \dots(iii)$$

and, $x - y = 5$ (iv)

Now from (iii) & (iv)

$$x = 8 \text{ km/hr}$$

Let C.P. of each article be 100

$$\therefore \text{S.P. of 15 article} = \frac{135}{100} \times 1600 \quad (1 \text{ article is free})$$

$$\text{and S.P. of each article} = \frac{135 \times 1600}{15 \times 100} = \text{Rs. } 144$$

$$\text{M.P.} = \frac{100}{96} \times 144 = 150$$

So, M.P. is marked 50% above C.P.

$$\text{Or, } \frac{4}{3x^2} = 7$$

$$\text{Or, } \frac{x}{3} = 7 \therefore x = 21 \text{ days}$$

Hence, A completes the work in 21 days, B in $(21 \times 2 = 42)$ days and C in $\left(\frac{2}{3} \times 21 = 14\right)$ days.

91. (4) A $\rightarrow 4\% = 20$ marks
 100% = 500 marks
 Passing marks = $\frac{38}{100} \times 500 + 8 = 198$
 B $\rightarrow 35\%$ of $x + 25 = 40\%$ of x
 $x = 500$

$$\text{Passing marks} = \frac{35}{100} \times 500 + 23 = 198$$

C \rightarrow data inadequate

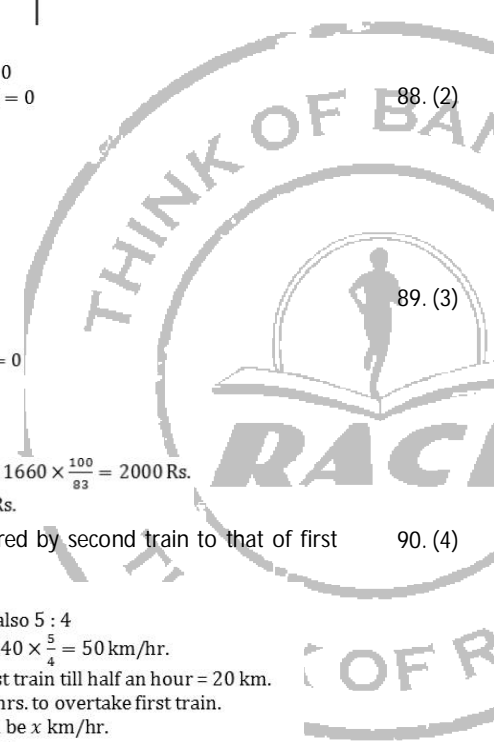
So either (A) or B is sufficient

92. (5) A \rightarrow Let no. of clerks and supervisors are 4x and 5x

C \rightarrow total salary of clerks = 125000

Salary of supervisors = 285000 - 125000 = 160000

$$B \rightarrow \frac{160000 - 125000}{125000} \times 100 = 28\%$$



93. (3) $A \rightarrow T_{\text{sudhir}} = \frac{3}{4} \text{ year}$
 $B \rightarrow \text{Saket} = 450000 \text{ Rs.}$
 $C \rightarrow \text{Profit} = 55000$
 $D \rightarrow \text{Sudhir} = 100000$

$$\frac{10000}{55000} = \frac{150000 \times 1}{(150000 \times 1) + (\frac{3}{4} \times 100000) + (450000 \times x)}$$

 $x = \frac{4}{3} \text{ year or 16 months}$

94. (3) $A \rightarrow 3828 \times \frac{100}{120} = CP = 3190 \text{ Rs.}$
 $B \rightarrow 1b + 1p = 90$
 $C \rightarrow (b + p) - (b - p) = 28$
 $P = \text{Rs. } 14$
 $b = 90 - 14 = 76$
 $30b + 65p = 3190 \text{ Rs.}$

95. (3) $A \rightarrow t + b = 15$
 $C \rightarrow 2t = 12$
 Required time = 18 hours

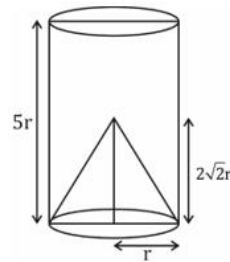
96. (1) Total surface area of the toy =
 C.S.A of cone + C.S.A of Hemisphere
 Let, slant height of cone
 $\pi \ell + 2\pi r^2 = 858 \text{ cm}^2$
 $\pi(\ell + 2r) = 858 \text{ cm}^2$
 $\ell = 25 \text{ cm}$
 height of cone = 24cm
 volume of the toy
 $= \frac{1}{3} \pi r^2 h + \frac{2}{3} \pi r^3$
 $= \frac{1}{3} \pi r^2 (h + 2r)$
 $= 1950 \frac{2}{3} \text{ cm}^3$

97. (5) Height of cylinder = 12 cm
 Height of toy is double the height of cylinder = 24 cm
 Edges of cube = 24 - 12 = 12 cm
 C.S.A of cylinder = $2\pi rh = 66 \times h$
 $r = 10.5 \text{ cm}$
 Total surface area of toy = $(6a^2 - \pi r^2) + 2\pi rh + \pi r^2$
 ($-\pi r^2$, area subtracted due to alignment)
 $= 6 \times 12 \times 12 + 2 \times \frac{22}{7} \times 12 \times 10.5 = 1656 \text{ cm}^2$

98. (3) Sphere radius = $\frac{21}{2}$
 So, cylinder radius = $\frac{21}{2}$
 height of cylinder = 12
 required ratio
 $= \frac{4}{3} \pi r^3 + \pi r^2 h : \pi r^2 h : \frac{4}{3} \pi r^3$
 $\frac{4}{3} r + h : h : \frac{4}{3} r$
 $13 : 6 : 7$

99. (4) Volume of cone = $\frac{1}{3} \pi r^2 h$
 $= \frac{1}{3} \times \frac{22}{7} \times 7 \times 7 \times 24 = 1232 \text{ cm}^3$
 Volume of cuboid
 $= 24 \times 10 \times 25\% \text{ of } 24$
 $= 1440 \text{ cm}^3$
 Difference = $1440 - 1232 = 208 \text{ cm}^3$
 Required % = $\frac{208}{1232} \times 100 = 16.88\% \approx 17\%$

100. (3)



Total surface area of cone = $\pi r \times \text{slant height} + \pi r^2$
 $= \pi r (\ell + r)$
 $= \pi r (\sqrt{8r^2 + r^2} + r)$
 $= \pi r (4r)$
 $= 4\pi r^2$
 Total surface area of remaining part of cylinder
 $= \pi r^2 + 2\pi rh + \pi r \ell$
 $= \pi r (r + 2h + \ell)$
 $= \pi r (r + 10r + 3r)$
 $= 14 \pi r^2$
 Required ratio = 2 : 7

101. (4) In the passage, the author talks about how America was not able to adapt its way of fighting according to the terrain and culture it found itself in. America was used to fighting open field battles and struggled to fight in the jungles against guerilla war tactics. Hence, option (4) best captures this point.

102. (2) Option (2) is given as an example of the Western way of war while options (1), (3) and (4) are characteristics of the Asian way of war. Hence, option (2) is correct.

103. (1) Option (1) is contrary to what is stated in the passage. In Sun-tzu and other Chinese writings, the highest achievement of arms is to defeat an adversary without fighting. He wrote: "To win one hundred victories in one hundred battles is not the acme of skill. To subdue the enemy without fighting is the supreme excellence." Sun-tzu believed that war should not be the first resort. Hence, option (1) is definitely not one of his ideas.

104. (4) The passage states that: The West's great strategic writer, Clausewitz, linked war to politics, as did Sun-tzu. Both were opponents of militarism, of turning war over to the generals. But there all similarity ends.

Hence, we can eliminate options (1) and (2).

The contrast between the two strategic writers view has been described by the following lines. Clausewitz's view was: In this view, war proceeds along a fixed course and occupies a finite extent of time, like a play in three acts with a beginning, a middle, and an end. The end, the final scene, decides the issue for good.

Hence, the two writers had different conceptions of how the structure, time and sequence of war.

105. (1) The passage states that:

To the American strategic mind, the Viet Cong guerrilla did not fight fairly. He should have come out into the open and fought like a man, instead of hiding in the jungle and sneaking around like a cat in the night. Hence, option (1) is correct.

106. (4) Adversary (one's opponent in a contest, conflict, or dispute) hence confederate which means joined by an agreement or treaty is the word which is most opposite in meaning.

107. (2) Stealth meaning cautious and surreptitious action or movement hence candor which means the quality of being open and honest; frankness is the word which is most opposite in meaning.
108. (5) Obliterate means wind up the affairs of (a business) by ascertaining liabilities and apportioning assets hence liquidate is the word which is most similar in meaning.
109. (1) Only the first starter can be used to frame a logical and comprehensive sentence connecting both the sentences given as the question. The other two starters are incorrect owing to their varying meanings.
(I) Though MC Mary Kom has been described as the Muhammad Ali of women's boxing, it is a trifle unfair because she has her own claim to fame - the indefatigable MC Mary Kom, the woman from Manipur who attained global glory.
110. (3) Both the starters (I) and (II) can be used to connect the given set of two sentences to form a meaningful statement. However, the third starter is incorrect as it would alter the meaning of the actual sentence.
(I) To list the successes of MC Mary Kom would be a lengthy affair, what matters is how she adapted herself to varying demands, including "gaining weight" because a few competitions did not cater to her natural weight category.
(II) While it would be a lengthy affair to list the successes of MC Mary Kom, what matters is how she adapted herself to varying demands, including "gaining weight" because a few competitions did not cater to her natural weight category.
111. (5) All the three starters are correct enough to form three logical sentences without altering the meaning of the actual sentence.
(I) Being an umbrella organization with many ideologies coexisting together, the Congress lacked a single focus.
(II) In view of the fact that the Congress was an umbrella organization with many ideologies coexisting together, it lacked a single focus.
(III) As the Congress was an umbrella organization with many ideologies coexisting together, it lacked a single focus.
112. (2) Only the second starter can be used to frame a logical and comprehensive sentence connecting both the sentences given as the question. The other two starters are incorrect owing to their varying meanings.
(II) While Deen Dayal identifies honesty to be a principle, the task is to make it a policy for which the beginning has to be made by reforming an overdeveloped state that is free of corruption, with a high level of human development indices, and adhering to a "world minimum" that Sakharov spoke of.
113. (2) Only the third starter can be used to frame a logical and comprehensive sentence connecting both the sentences given as the question. The other two starters are incorrect owing to their varying meanings.
(III) Discounting the universal validity of Western ideologies, Deen Dayal emphasised the relationship of political ideologies to the factors of time and place.
114. (3) The given paragraph is about the rise of cyber crime and the need to maintain data protection and privacy. Read the sentence following the blank space, it can be inferred from the sentence that only sentence (3) fits into the sentence perfectly. Other sentences are though common to the topic but they can be eliminated owing to their reference in the paragraph. Thus they are irrelevant to this particular paragraph. Hence (3) is the correct choice.
115. (3) The sentences in the sequence of "abde" form a coherent paragraph which is about indemnity-based health insurance products and mediclaim policies. Among the given options, only option (3) does not find connection with any of the other sentences of the paragraph as it is referring to some gaps having no relevance in any other sentences. Hence (3) is the correct choice of elimination.
116. (2) The first and the second parts of the sentence are grammatically correct and thus they don't require any correction. However, in the third part of the sentence, the phrase "has the federal structure" should be replaced by "have a federal structure" as the verb "have" will be used to signify the plural subject "very few of them." Thus only the third part of the sentence requires some changes in the bold part to make the sentence grammatically correct. Hence (2) is the correct choice.
117. (5) All the three starters are correct enough to form three logical sentences without altering the meaning of the actual sentence.
(I) Since Tipu wanted to appease the French and secure their military assistance, he became a member of the Jacobin Club established by the French and planted the "tree of liberty" in Mysore.
(II) To appease the French and secure their military assistance, Tipu became a member of the Jacobin Club established by the French and planted the "tree of liberty" in Mysore.
(III) Considering that Tipu wanted to appease the French and secure their military assistance, he became a member of the Jacobin Club established by the French and planted the "tree of liberty" in Mysore.
118. (2) Read the paragraph carefully, it is about the communist movement which ultimately led to the Russian Revolution. The sentence prior to the blank space indicates that the following sentence should either be comparative or contrasting. Moreover, the names of some of the greatest communists suggest that the sentence (2) would fit into the space perfectly. It also concludes the paragraph in the most logical and contextual manner and thus maintaining the theme of the paragraph throughout. Other options fail to connect with the flow of the paragraph. Hence (2) is the correct choice.
119. (5) Option (5) is the correct choice as it is not a part of the coherent paragraph. Other statements are forming a coherent paragraph with their sequence being abcd. The hint is the word 'trilateral' as there isn't any specific mention of the 3rd country. The other reason is that it doesn't fit into the sequence and even after being a part of the same article; it is prohibited from being a part of the paragraph due to its context.
120. (1) The coherent paragraph is the observation of an expert where he explained the ills of posting something directly on social media without going through the processes of editorial judgment as a vital lesson to young angry activists who have embraced cyberspace not only to vent their anger but also to galvanise people
Option (1) is the correct choice as it is not a part of the coherent paragraph as it is an opinion of the other expert and is contradictory to the theme of the coherent paragraph as according to him, Cartoons need breathing

- space and leeway to retain a sense of humour while delivering a political opinion and option (1) is one of the sentences which conforms to his view. Other statements are a part of the coherent paragraph with their sequence being dceb.
121. (3) Option (3) is not the part of the coherent paragraph. By looking at all the sentences we can easily figure out that option (4) is the 1st sentence of the paragraph. The next can be either (3) or (1) but by looking at the options (2) and (5) we can infer that these are the statements which must come next after (1) as both the statements are mentioning the subjects which are being talked about in option (1). Option (3) feels abrupt and can't fit into the paragraph and hence is the correct choice.
122. (4) Option (4) is the correct choice for the given question. Other options make a coherent paragraph with their sequence being baec. The theme of the paragraph is the country's political map based on linguistic criteria but option (4) is not in harmony with the theme of the passage.
123. (5) Option (5) is the correct choice. The hint is the use of the word 'panacea' which means a solution or remedy for all difficulties or diseases. The paragraph is introducing us with the concept of blockchain but option (5) is not in agreement with the theme of paragraph and is introducing new topics. The other options make a coherent paragraph with their sequence being dbac.
124. (4) The paragraph gives a clear view that it is giving out an argumentative approach on the project of bullet train in India. The paragraph begins with an interrogation, questioning the challenges that seem to be factually true. Thus it would be more appropriate if the conclusion also follows the same suit. Among the given options, the sentence (4) makes a valid conclusion adding more strength to the viewpoint of the author. Other options, though similar to the topic, are not relevant enough to be the part of the paragraph. Hence (4) is the correct choice.
125. (4) The sentences in the sequence of " acbe " form a coherent paragraph which is about the procedures of banking ombudsman. Among the given options, only option (4) does not find connection with any of the other sentences of the paragraph as it is talking about approaching a court for filing the complaint which finds no relevance in any other sentences. Hence (4) is the correct choice of elimination.
126. (2) The given paragraph is about the aftermath of the demonitisation. Among the given options, there is only sentence (2) that fits perfectly into the blank space. The sentence adds meaning to the paragraph and at the same time it correctly follows the first sentence of the paragraph. Other options are irrelevant in the context of the paragraph. Hence (2) is the correct choice.
127. (1) The given paragraph is about the decision by central and state governments to introduce NCERT books in madrasas without disrupting the religious curriculum following the Nai Manzil scheme launched to educate and empower the Muslim youth by modernizing madrasas. Among the given options, only statement (1) fits perfectly into the paragraph as it continues on the same theme as the paragraph. Other options are irrelevant in the context of the paragraph. Hence (1) is the correct choice.
128. (4) The given paragraph is about the poor condition of air-quality in Delhi which is getting worse. Among the given options, there is only sentence (4) which finds some connection with the paragraph and at the same time it concludes the paragraph in the best manner, adding meaning to it. Other options are not feasible enough to make the paragraph complete and conclusive. Hence (4) is the correct choice.
129. (5) The paragraph is about the departure of Ms. Patel and its impact on India's ruling party. Among the given options, only sentence (5) finds an appropriate alternative to fit into the sentence perfectly. Other options are not in the context of the paragraph's actual subject. Hence (5) is the correct choice.
130. (1) The given paragraph is about the US policies toward India and China. Among the given options, only sentence fits perfectly into the blank space as it follows the sentence prior to the space as well as the one following it. It brings the continuity into the meaning of the paragraph. Other options are not relevant enough to bring about a similar meaning to the paragraph. Hence (1) is the correct choice.
131. (2) All the other options are a situation which a person has witnessed and has a proof to its occurrence whereas in option (2) a person has to believe something he hasn't witnessed, hence, there is an ample scope for ambiguity.
132. (4) Refer to the last paragraph-2nd last line, 'By self-actualisation.... harmony.' Hence, option (4) is the correct choice.
133. (4) The language used by the writer is simple and lucid enough for an average reader to understand the text, much like that of a magazine. In addition the other three options donot seem to be relevant in the given context. Hence, option (4) is the correct choice.
134. (4) The main idea of the passage revolves around cognitive dissonance and the self. Hence option (4) is the correct choice.
135. (1) As per the statement "The tendency to be consistent is but one aspect of how self-perception influences motivation." it is clear that option (1) is correct.
136. (5) All three sentences are grammatically correct and thus they do not require any correction. Hence (5) is the correct choice.
137. (5) The sentences in the sequence of " dcba " form a coherent paragraph which is about the Financial Resolution and Deposit Insurance (FRDI) Bill, 2017 and all the necessary details related to it. Among the given options, except the sentence (5), all other sentences are interconnected following a logical a string to form a coherent paragraph. The sentence (5) fails to be the part of the paragraph so formed as it refers to some financial entities which finds no relevance in any other sentences. Hence option (5) is the correct choice of elimination.
138. (4) If (A) is the first sentence, the correct sequence of other sentences after rearrangement should be DCEFB. The mention of the term " Chinese top-down system" indicates that it should be followed by sentence (D). Moreover, sentences (C), (E) and (F) make common link that form a logical string. The sentence (B) forms the concluding sentence of the paragraph so formed. Thus sentences in the sequence of ADCEFB form a coherent paragraph which is about the comparison between the economy of India and China. Hence (4) is the correct choice.
139. (4) The inference drawn is about the people who faced severities during the period starting with implementation of Demonetisation till situations eased out. Statement (I)

- talks about the emotional outcry of people and their criticism about government's step but nowhere presents any fact or example of unattended people's suffering . Statement (III) talks about only the introduction of the campaign and the related debates about its righteousness. Statement (II) presents soundly the fact that ordinary innocent people who believed in government intentions suffered the hardships and not much was done or thought about easing their suffering at the start of the process.
140. (2) The inference is drawn is that Hindu outfits can no longer deny the existence of extremism among their ranks. Statement (II) though mentions the killing of Mahatama Gandhi by a fanatical Hindu, it fails to state that it has been backed the community. Statement (I) & (III) support the inference based on facts that fringe Hindus radicals have created an atmosphere of intolerance for writers, academics speaking against them and predominance of Hinduism in Indian society, politics, and culture, which it promotes through tactics that include violence and terror respectively.
141. (2) The inference drawn is based upon the fact that if the court finds out a circumstance where in there is need for special physical assistance for the prisoner daily life activities i.e. with a physical disability, he should be allowed bail on this ground. Statement (II) and (III) beat around the bush with references to the Indian Constitution stating right to life and liberty but it doesn't specifies it particularly for the disabled accused. Statement (I) alone provides for consideration of a person's physical condition as a ground for bail provision.
142. (2) The inference drawn centers around the fact that police not able to withstand public pressure jump to conclusions that may be later refuted. Supporting this inferences are Statement (I) & (III) which clearly mentions police investigations carried in wake of public pressure have resulted into debatable conclusions showing inadequacy. Statement (II) makes a mention of the public pressure but then deviates to badly carried out investigations. It doesn't show that a public statement was issued on the basis of any conclusion.
143. (5) The inference drawn on the basis of increasing bilateral faceoffs in ODI cricket to be making game watching boring is supported by all the Statements (I) (II) & (III) as all statements mention the facts : Number of bilateral series have increased with decrease in more than 2 team series tournaments hence resulting in increase of monotonous nature in these clashes.
144. (1) The passage states that: "In the name of modernisation in the West, of socialism in the Eastern bloc, and of development in the Third World, it was expected to guarantee the happiness of individuals as citizens and of peoples as societies." Hence, only option (1) is correct.
145. (5) Option (1) can be inferred from the following line:"There are two ways in which the current upsurge in demands for the recognition of identities can be looked at." The author goes on to mention an upside and a downside. Option (2) can be concluded from the given lines:"On the downside, however, militant action for recognition tends to make such groups more deeply entrenched in their attitude and to make their cultural compartments even more watertight." Option (3) can be concluded from the following lines:"What these groups are doing - proclaiming that they are different, rediscovering the roots of their culture or strengthening group solidarity - may accordingly be seen as legitimate attempts to escape from their state of subjugation and enjoy a certain measure of dignity." Hence, all three options directly follow from the passage.
146. (5) The passage states that:
"First, we must bear the arbitrary nature of identity categories in mind, not with a view to eliminating all forms of identification—which would be unrealistic since identity is a cognitive necessity". Hence, we can eliminate option C.
It also states that: "Identity is thus a necessity in a constantly changing world, but it can also be a potent source of violence and disruption. " Thus option B can be eliminated.
The passage states that: "Paradoxically, precisely because identity represents a simplifying fiction, creating uniform groups out of disparate people, that identity performs a cognitive function."
Hence, all options except (5) are eliminated. Hence, none of the above is correct.
147. (2) The passage states that:
"However, the state today appears to have broken down in many parts of the world. It has failed to guarantee either security or social justice, and has been unable to prevent either international wars or civil wars. Disturbed by the claims of communities within it, the nation-state tries to repress their demands and to proclaim itself as the only guarantor of security of all. In the name of national unity, territorial integrity, equality of all its citizens and non-partisan secularism, the state can use its powerful resources to reject the demands of the communities; it may even go so far as genocide to ensure that order prevails."
Hence, we can eliminate options (1), (3) and (4) as they contradict what is given above. The author states that the state will do anything, including genocide, to preserve order. Hence, we can infer option (2) as correct.
148. (3) The passage states that:
However, the state today appears to have broken down in many parts of the world. It has failed to guarantee either security or social justice, and has been unable to prevent either international wars or civil wars. Disturbed by the claims of communities within it, the nation-state tries to repress their demands and to proclaim itself as the only guarantor of security of all. In the name of national unity, territorial integrity, equality of all its citizens and non-partisan secularism, the state can use its powerful resources to reject the demands of the communities; it may even go so far as genocide to ensure that order prevails.
Hence, options (1), (2) and (4) are directly given in the passage. However, option (3) is not mentioned in the passage and is inconsistent with what is stated in the passage.
149. (3) Venerate means to regard with great respect; revere hence execrate is the word which is most opposite in meaning.
150. (5) Upsurge means an upward surge in the strength or quantity of something; an increase hence abate is the word which is most opposite in meaning.