RACE

Canara Bank PO PGDBF Grand Test – CBPO180211

ANSWER KEY

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

HINTS & SOLUTIONS

1-5.

CD	FA	OJ
UN		HY
BK	PR	IZ

The alphabets are arranged according to the directions are given for step 1.

CD4	FA1	OJ10
UN14		HY25
BK11	PR18	IZ 26

Step-1

The alphabets are arranged according to the directions are given for step 2.

XW2	FZ3	MJ10
SN14		SB23
DM11	RT18	GZ26

Step-2

For Step-3:

(i)The elements arranged in a serial way in first and third row as element of third column is placed in first column, element of first column is placed in second column and element of second column is placed in third column.

(ii)In the second row the elements are arranged in the given arrangement-

The Consonant are replaced with the letter in the alphabetical series with the next letter of the given letter in alphabetical series. The vowels are replaced with third next letter in the alphabetical series. There is a subtraction of 5 from the given number.

MJ10	XW2	FZ3
TO9		TC18
GZ26	DM11	RT18

Step-3

1. (3)   2. (2)
3. (1)   4. (1)   5. (1)

6. (3) If the student does not submit the exam after completion of the duration of the exam then Examination will automatically submit.

7. (4) Not mentioned in DFD as nothing is mentioned about that what will be the next step if the student reached 10 minutes late from the reporting time to the examination center but has all the required documents.

8. (4) If the student pressed 'Enter' key during the examination then Exam will get lock automatically.

9. (5) The biometric verification is done after both the steps as after pasting the photograph on the admit card and after submission of the exam which is mentioned in the DFD.

10. (5) If the student is not able to sign-in to start the exam then the possible reasons of this issue mentioned in the DFD can be either entered roll no or password is in-correct or there is a technical problem in the server.

11-16. To solve this we first start with the blood-relation diagram. From the conditions given above- Only one member sits between N's sister and L's brother. Only two members sit between N's father and X's father. X's husband, who likes Stuart Binny, sits third to the right of X's uncle. L has two sons and one daughter. The member who sits just opposite to X's brother, who likes Chris Gayle, sits immediate left of L's daughter. P is the grandmother of U and X. O is the brother-in-law of P. Only one member sits between N's sister and L's brother. N is the father of U and brother of M. U's grandfather, who likes Virat Kohli, is not an immediate neighbour of M. Y is the husband of X and brother of the one, who likes Pawan negi. W likes Pawan negi. By using these conditions we will get-
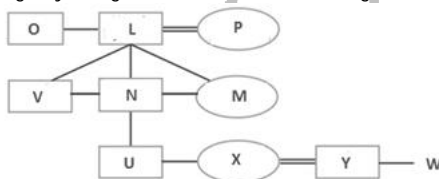
Now for sitting arrangement- Only one member sits between N's sister and L's brother. Only two members sit between N's father and X's father. X's husband, who likes Stuart Binny, sits third to the right of X's uncle. U sits second to the left of X's husband. The member who sits just opposite to X's brother, who likes Chris Gayle, sits immediate left of L's daughter. U's grandfather, who likes Virat Kohli, is not an immediate neighbour of M. X likes Mandeep singh and P likes Harshal patel.

From these conditions there will be two cases:----
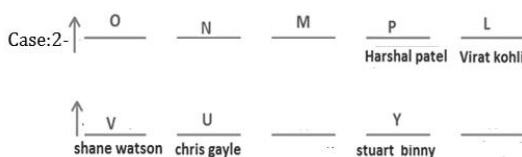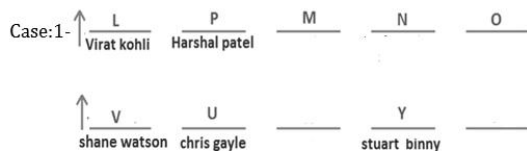
Now, Neither M nor X's grandfather sits just opposite to X. As there will be no place left for X in case:2 so Case:2 will

be eliminated. From rest X likes Mandeep singh and P likes Harshal patel. N likes neither Yuzvendra Chahal nor AB de villiers. W likes Pawan negi. O does not like AB de villiers. So the final solution is------

| 11. (3) | 12. (3) | 13. (4) |
| 14. (2) | 15. (4) | 16. (2) |

17-21. R sows Rice but not in February. V sows in January but neither Gram nor Pepper. U sows Grapes in May. The one who sows Rice has a contract with Tata. Q sows Pulses in March. Two people sows on the months between the months on which the one who has a contract with Tata sows and the one who has a contract with Parle sows. S, who has a contract with Parle, does not sow Rice and Gram and sows on the next month of the month on which T sows Mango. The one who has a contract with Reliance sows in the month just before the month in which R sows. From the above conditions we get----

Month	Farmers	Crop	Companies
January	V	Gram(×), Pepper(×)	
February	P		
March	Q	Pulses	Reliance
April	R	Rice	Tata
May	U	Grapes	
June	T	Mango	
July	S	Gram(×)	Parle

Three people sows between the months on which the one who has a contract with 24 mantra and the one who has a contract with Pepsico sows. The one who has a contract with Morarka organic sows just before the month on which the one who belongs to 24 mantra sows. The one who has a contract with Itc sows after the month on which the person who has a contract with 24 mantra sows.
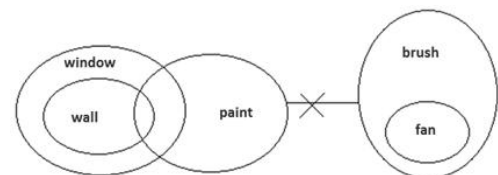
Month	Farmers	Crop	Companies
January	V	Wheat	Morarka organic
February	P	Gram	24 mantra
March	Q	Pulses	Reliance
April	R	Rice	Tata
May	U	Grapes	Itc
June	T	Mango	Pepsico
July	S	Pepper	Parle

17. (5)   18. (4)

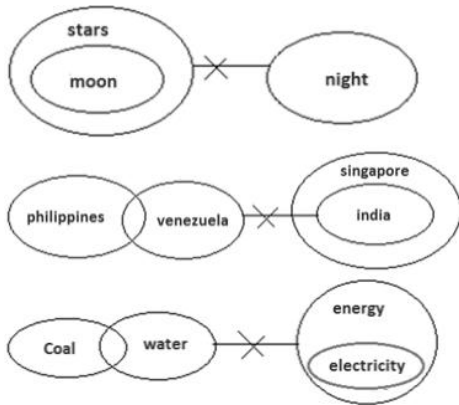19. (5)   20. (5)   21. (5)

22. (4)
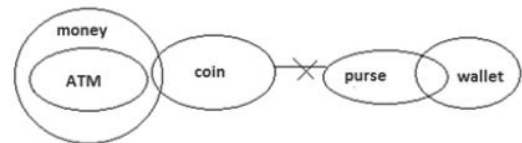
23. (4)

24. (4) We can conclude the third statement (i) from the first two statements (iv,vi).

RACE

25. (3)

26. (2)

27. (2) For I-This cannot be assumed from the given statement because It is nowhere mentioned in the given statement whether BJP government is interested in people's welfare or not.

For II-This can be assumed from the given statement as it is given in the statement that cycling is beneficial for health, environment and economy so it can be assumed that to demolish the cycle tracks, will lead to pollution and accidents.

For III-This cannot be assumed from the given statement as nothing is mentioned about the compensation given by SP government.

28. (2) In the above question we have to find which statement concluded from the given statement.

For I-This cannot be deduced from the given statement as it is nowhere mentioned in the given statement.

For II- This cannot be deduced from the given statement as it cannot be determine from the given statement about banks potential to turn into digital space and about the percentage of customers who have a reliable online banking experience.

For III-This can be deduced from the given statement as it is clearly mentioned in the given statement that 90% Indian customers still prefer branch over online banking which implies that digital banking is still not widely accepted by group of people.

29. (4) In the above question we have to find which statement does not follow the theme of the given statement.

For I-This is in line with the given statement because it describes that government is planning to launch a campaign to give up subsidy on rail tickets which is similar to Give-It-Up' campaign.

For II-This is not in line with the given statement because it states about the increased fares of Shatabdi and Rajdhani trains whereas the given statement is about the government's plan to encourage people to give up their subsidy on rail tickets.

For III-This is also in line with the given statement as it describes about the slabs offered by the government to surrender their subsidy on rail tickets.

For IV-This is also in line with the given statement because it gives additional information about the forgo subsidy plan of government.

30. (1) In this question, we have to choose an option which can be assumed from the given statement.

Statement (i) can be assumed as it is given in the statement that Raja was unhappy with Dhoni being given Grade-A despite him being retired from test cricket.

Statement (ii) cannot be assumed as it is not related to the statement.

Statement (iii) is against the statement which considers that giving Grade-A to those cricketers who have retired from test cricket is not good for the game.

31. (1) In this question, we have to choose an option which negates the report which accuses Indian Army of using chemical weapons in the attack.

Statement (i) raises doubts over the media report and therefore negates the statement.

Statement (ii) substantiates the statements by giving further evidence to support the statement.

Statement (iii) is irrelevant as water cannons are not a chemical weapon.

32-37. N was born in 1981. K works in cabin 2. P works in cabin 1. L works in an even numbered cabin and likes Pink colour. The person who likes Pink is youngest person among all of them. N works in an odd numbered cabin. Q works in cabin 6. From the above conditions it is clear that L works in cabin 2 and was born in 1989.

PERSON	CABIN	Colour	BORN IN
P	1		
Q	6		
N	3/5		1981
K	2		
O	3/5		
L	4	Pink	1989

Q was born just after the person who likes Blue color. N and O do not like Red, Orange and Blue colours. Neither the person, who likes Blue colour nor person, who likes Orange colour is allotted cabin 2. The person who likes Black colour was born in 1988. So only person left who was born in 1977 will be P.

PERSON	CABIN	Colour	BORN IN
P	1	Blue	1977
Q	6		1978
N	3/5		1981
K	2		
O	3/5		
L	4	Pink	1989

The person who likes Red colour was born in a year which is immediately after the person who likes Brown color. So, only possibility is N likes Brown color and K likes Red color, O likes black color and Q likes Orange colour. Also it is clear that K was born in 1982 and O was born in 1988.

PERSON	CABIN	CITY	BORN IN
P	1	Blue	1977
Q	6	Orange	1978
N	3/5	Brown	1981
K	2	Red	1982
O	3/5	Black	1988
L	4	Pink	1989

32. (3)   33. (3)   34. (4)
35. (4)   36. (5)   37. (2)

38-39.

F(-)═══G(+)

A(+)

H(+)──C(+)──D(-)═══B(+)

E(-)

38. (1)   39. (5)

40. (4)

41. (2)

Days	Morning	Evening
Monday	G (Sarita Vihar)	I(Shadra)
Tuesday	J(Mandi house)	A(Indraprastha)
Wednesday	B(Rajiv Chowk)	D(Anand Vihar)
Thursday	H(Vaishali)	E(Dwarka)
Friday	F (Nirman Vihar)	C(Nehru Place)

42. (4)   43. (3)
44. (1)   45. (5)   46. (4)

47. (5) In the above question we have to find which statement is not associated with given statement in context with the above statement.

For I- In first statement it has been said that the strike is supported by quit a large amount of pharmacies. So I is in line with the given statement.

For II-This statement states the reason behind the strike that e-pharmacies sell medicines at low prices. . So II is in line with the given statement.

For III-This statement discusses the issues organization has with e-pharmacies. So it is also in line with the given statement.

For IV-It discusses about different actions both organization and e-pharmacies are taking against each other. So it is also in line with the given statement.

48. (2) In this question we have find that which of the following could be the reason of the above statement. Statement (II) could only justify the statement because Qatar's involvement in terrorist activities to Islamist groups could be the reason that four Arab nations cut diplomatic ties to Qatar.

49. (4) In the above question we have to find out the statements which do not support the given statement.

For I-From I it is clear that Google is trying to fight with terrorism. So it supports the given statement.

For II-From II we can say that Google and You tube removes the post which has some objectionable content.

For III-From III It is clear that they cannot remove such content because they cannot decode such messages. So only this statement does not support the given statement.

For IV- This statement also supports the given statement as it says that Twitter is also taking steps towards removing accounts of extremists.

50. (3) In option (i), Aman got 60% marks in written test but qualified marks is 30 out of 40 marks that means 75% and in option (iii), he completed his graduation but that information is not mentioned in the statement. Also in option (iv), he got 30% average marks in other two rounds but qualifying marks is 40, So these three conditions shows he will not selected for the job.

51. (3) Series is $\times1.5, \times2, \times2.5, \times3, \times3.5$

52. (2) Series is $+1\times1^2, +2\times2^2 \ldots\ldots +5\times5^2$

53. (4) Series is $\times0.5+2, \times2+2, \times0.5+2, \times2+2, \times0.5+2$

54. (5) Series is $+1.5^2, +2.5^2, +3.5^2, +4.5^2, +5.5^2$

55. (5) Series is $+2^2, +3^3, +4^2, +5^3, +6^2$

56. (2) Net revenue in July $= \frac{7}{8} \times 336000 = 294000$

Gross revenue in July =
Net Revenue + Commission +Discount
= 294000 + 40,000 + 28,000
= 362000
Gross revenue from ads.
$= \frac{40}{100} \times 362000 = 144800$
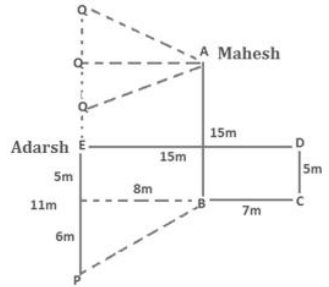
42-46. I attends class only after one person and has office neither in Nirman Vihar nor in Mandi House. A attends class on Tuesday and has office in Indraprastha. Only three person attend class between A and E who do not have his office in Vaishali. Only three persons attend class between J and H but H attends class after A. Neither J nor H attends class on Wednesday. So, there can be two possibilities----

Case:1-

Days	Morning	Evening
Monday		I(Nirman Vihar(×), Mandi House(×))
Tuesday	J	A(Indraprastha)
Wednesday		
Thursday	H	E(Vaishali(×))
Friday		

Case:2-

Days	Morning	Evening
Monday		I
Tuesday	A(Indraprastha)	J
Wednesday		
Thursday	E(Vaishali(×))	H
Friday		

J does not attend class in evening. From this case-2 will get eliminated. The one who attends class on Thursday has office in Vaishali. Both D and B attend class on same day. Four person attend class between G and D. G attends class before D and has office in Sarita Vihar. Both who has office in Rajiv Chowk and Anand Vihar attends yoga class on same day. B does not has office in Anand Vihar. F attends class immediately before C who has office in Nehru Place.

Days	Morning	Evening
Monday	G(Sarita Vihar)	I(Nirman Vihar(×), Mandi House(×))
Tuesday	J	A(Indraprastha)
Wednesday	B(Rajiv Chowk)	D(Anand Vihar)
Thursday	H(Vaishali)	E
Friday	F	C(Nehru Place)

I do not have an office in Dwarka. The one who has office in Dwarka attends class immediately before the one who attends has office in Nirman Vihar. So the final arrangement will be----

57. (4) Net revenue
$$= \frac{85}{100} \times 360000 = 306000$$
Amount allocated for discount and others
$$= 360,000 - 306000 - 31200$$
$$= 22800$$

58. (1) Net revenue in april
$$= \frac{320,000 \times 86.25}{100}$$
$$= 276000$$
Commission in April = 28,000
Required % $= \left(\frac{31200-28000}{28000}\right) \times 100$
$\approx 11\%$

59. (2) Net revenue in April
$$= 320000 - 16000 - \frac{10}{100} \times 320000$$
$$= 272000$$
Gross revenue in June = 330000 + 42000 + 30000
$$= 402000$$
Required difference = 130000

60. (4) Amount allocated for commission in May
$$= \frac{4}{3} \times 36000 = 48,000$$
Gross revenue = 48000 + 36000 + 336000
$$= 420000$$

61. (3) December $\rightarrow \frac{120}{100} \times \left(\frac{1218}{21} \times 100\right)$
$$= 6960$$
Required no of firework produced by T
$$= \frac{41}{87} \times 6960$$
$$= 3280$$

62. (2) Fireworks produced by P and R in July
$$= \frac{(23+9) \times 1715}{(9+14+26)}$$
$$= 35 \times 32$$
$$= 1120$$
Fireworks produced by S and T in November
$$= \frac{(11+10) \times 1218}{21}$$
$$= 1218$$
Required % $= \frac{1218-1120}{1218} \times 100$
$$= 8.04\%$$
$$= 8\%$$

63. (5) Required Ratio = (3500 + 3900 + 4300)
$$= (3800 + 5800)$$
$$= 13700 : 9600$$
$$= 137 : 96$$

64. (1) Required No of fireworks sold
$$= (0.7 \times 2660) + (0.75 \times 304)$$
$$+ 0.5 \times (836)$$
$$= 1862 + 228 + 418$$
$$= 2508$$

65. (1) July $\rightarrow$ (3500 – 3200) = 300
August $\rightarrow$ (3900 – 3500) = 400
September (4300 – 3900) = 400
October (3800 – 4300) = 500
November (5800 – 3800) = 2000

66. (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
$x = 500$
Passing marks $= \frac{35}{100} \times 500 + 23 = 198$
C $\rightarrow$ data inadequate
So either (A) or B is sufficient

67. (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 $\rightarrow \frac{160000-125000}{125000} \times 100 = 28\%$

68. (3) A $\rightarrow T_{sudhir} = \frac{3}{4}$ year
B $\rightarrow$ Saket = 450000 Rs.
C $\rightarrow$ Profit = 55000
D $\rightarrow$ Sudhir = 100000
$$\frac{10000}{55000} = \frac{150000 \times 1}{(150000 \times 1)+\left(\frac{3}{4} \times 100000\right)+(450000 \times x)}$$
$x = \frac{4}{3}$ year or 16 months

69. (3) let height of vessel = h
Let radius of bowl $= \frac{3}{2}$ h = radius of vessel
Volume of hot water $= \frac{2}{3} \pi h^3$
Required percentage
$$= \frac{\frac{2}{3}\pi\left(\frac{3}{2}h\right)^3}{\pi\left(\frac{3}{2}h\right)^2 \times h} \times 100$$
$$= 100\%$$

70. (1) Let radius be 3r then height will be 2r
Value of figure formed
$$= \frac{2}{3}\pi \times (3r)^3 + \pi(3r)^2 h$$
$$= \frac{2}{3}\pi \times 27r^3 + \pi 9r^2 \times 2r$$
$$= 36 \pi r^3$$
$$= 3r = 21$$
$r = 7$
$$= 36 \times \frac{22}{7} \times 7 \times 7 \times 7$$
$$= 36 \times 22 \times 49 \text{ cm}^3$$
Required time
$$= \frac{36 \times 22 \times 49}{539}$$
$$= 72 \text{ minute}$$

71. (2) Let efficiency of man = M
Efficiency of woman = W
Efficiency of child = C
(10M + 12W)5 = (2W + 6C) 32
25M = 2W + 96C ...(i)
6M = 8W + 8C
3M = 4W + 4C ...(ii)
Solving (i) and (ii)
M : W : C = 4 : 2 : 1
ATQ
$$\frac{(8M + 4W)5}{\frac{1}{3}} = \frac{(8W + 4C)D}{\frac{2}{3}}$$
D no. of day taken by 8 women and 4 children.
1 man efficiency = 4 children's efficiency
1 women efficiency = 2 children's efficiency
D = 20 days

72. (4) Let no. of day in which work completed = x
No. of children = 2 y
No. of women = y
10M × x = (2y × C + y × W) x
10M = y(2C + W)
y = 10
No. of child = 20
No. of women = 10

73. (4) Let distance covered by Chirag = 3z
Distance covered by Aman = 2z
Speed of Aman = x
Speed of Chirag = 1.2x

	Aman	Chirag
S	x	1.2x
D	2z	3z
T	$\frac{D}{S}$	$\frac{D}{S}$

$$T = \frac{2z}{x} \quad : \quad \frac{3z}{1.2x}$$
$$2 \quad : \quad 2.5$$
$$0.5 = 1$$
$$\times 2$$

Time taken by Aman = 2 × 2 = 4 hr
Time taken by Chirag = 2.5 × 2 = 5 hr
Chirag reach at point B = 11 : 00 + 5 hr = 4 : 00 p.m.

74. (4) Time taken by Aman = $\frac{2z}{x}$

ATQ,

$\frac{2z}{x}$ should be equal to $\frac{3z}{1.2x}$

Let, Aman slow his speed by a%

∴ $\frac{2z}{\left[1-\frac{a}{100}\right]x} = \frac{3z}{1.2x}$

$2.4 = 3\left[1-\frac{a}{100}\right]$

$0.8 = 1-\frac{a}{100}$

a = 20%

A man should slow his speed by 20% to reach at the same time that of Chirag.

75. (2) Run scored outside the India against Pak in ODI

$= \frac{500}{900} \times \frac{25500}{100} \times 18$

= 2550

Run scored outside the India against Pak in Test

$= \frac{9}{14} \times \frac{13}{100} \times 11200 = 936$

Required difference = 2550 – 936 = 1614

76. (4) Run scored by Kohli in ODI against Pak and WI = (22 + 18)% × 25500

= 40 × 255 = 10200

Run against NZ and England in test = 23 × 112 = 2576

Required % = $\frac{7624}{2576} \times 100 \approx 296\%$

77. (5) Avg. runs in ODI excluding others

$= \frac{255 \times 74}{5} = 3774$

Run against WI in test = 24 × 112 = 2688

Avg. = 1.4 times

78. (1) Required ratio = $\frac{22 \times 255}{32 \times 112}$ = 2805 : 1792

79. (2) Required% = $\frac{21 \times 112}{26 \times 255} \times 100$

= 35.47% ≈ 35%

80. (1) Required probability =

$\frac{1}{3} \times \frac{4}{5} \times \frac{3}{4} + \frac{2}{3} \times \frac{1}{5} \times \frac{3}{4} + \frac{2}{3} \times \frac{4}{5} \times \frac{1}{4} = \frac{13}{30}$

81. (3) ? = 55.8 + 7.2 – 16.5 – 21.7 = 24.8

82. (4) ? = $\frac{19600}{70} \times 16 \times \frac{1}{8} \times \frac{1}{14} = 40$

83. (5) ? = 126 + 30 + 109 = 265

84. (3) ? = 3.37 × 1.8 = 6.066

85. (2) ? = $\frac{499-425}{185} \times 100 = 40$

86. (4) Let No. of Notebooks be 'n'
And No. of children be 'x'

∴ $\frac{n}{x} = \frac{x}{8} \rightarrow x^2 = 8n$

$and \frac{n}{\frac{x}{2}} = 16 \rightarrow \frac{n}{x} = 8$

∴ $x = 8 \times \left(\frac{n}{x}\right) = 8 \times 8 = 64$

Hence, No. of Notebooks= $\frac{(64 \times 64)}{8} = 64 \times 8 = 512$

87. (1) $20 \times x = x^2 - 96$

∴ $x^2 - 20x - 96 = 0$

x=24,–4

88. (2) In word 'ORGANISE'. No. of vowel= O, A, I, E=4
No. of consonant=R, G, N, S=4

∴ Total no. of different ways= 2! × 4! × 4! = 2 × 24 × 24 = 1152 ways

89. (1) Since, speed of car=35 km/hr.
∴ Total distance in 12 hours=35+37+39+41+............upto 12 hours.

$= \frac{12(35+57)}{2} = 6 \times 92 = 552$ km.

90. (3) Let money invested in scheme A=x
∴ money invested in scheme B= 27000 − x

Now, $x \times \left(1+\frac{8}{100}\right)^2 + (27000-x)\left(1+\frac{9}{100}\right)^2 - 27000 = 4818.30$

∴ $\frac{(108)^2 \cdot x}{10000} + \frac{(27000-x)(109)^2}{10000} = 31818.3$

∴ 11664 × x + (27000 − x) × 11881 = 318183000

∴ x = 12000 Rs.

91. (1) **Quantity I:**
$= \frac{4}{6} \times \frac{3}{8} = \frac{1}{4}$
Quantity II:
$= \frac{2}{6} \times \frac{5}{8} = \frac{5}{24}$
Quantity I > Quantity II

92. (4) **Quantity I:**
$\frac{10}{x+1} + \frac{6}{x-1} \geq 4$
$x^2 - 4x \leq 0$
$x \leq 4$
Quantity II ≥ Quantity I

93. (2) **Quantity I :**
Let A, B and C get x, y and z Rs. respectively
So,

$x = \frac{2}{3}(y+z)$

$3x = 2y + 2z$ ...(i)

and

$z = \frac{1}{2}(x+y)$

$2z = x + y$ ...(ii)

Solving (i) and (ii)
We get ratio of x : y : z = 6 : 4 : 5

C's share = $\frac{5}{15} \times 3000 = 1000$ Rs.

Quantity II:
$\frac{1}{6}$ Aman = $\frac{1}{4}$ Bijoys = $\frac{2}{5}$ Chandra

Amans : Bijoys : Chandras = 12 : 8 : 5

Amans share = $\frac{12}{25} \times 2250 = 1080$ Rs.

Quantity II > Quantity I

94. (1) **Quantity I:**
Total Interest = $\frac{9000}{100}(8 \times 2 + 9.5 \times 4 + 11 \times 2 + 12 \times 4)$

= 90(16 + 38 + 22 + 48) = 11,160
Amount = 11160 + 9000 = 20160
Quantity I > Quantity II

95. (1)

Quantity I →	Babu		Pallavi
Efficiency →	1	:	$\frac{7}{4}$
Time →	7	:	4

$\frac{1}{7x} + \frac{1}{4x} = \frac{1}{7}$

$x = \frac{11}{4}$

∴ Quantity I = $\frac{11}{4} \times 4 = 11$ days

Quantity II →	Gaurav		Vivek		Babu
Efficiency →	2	:	4	:	3

If babu does 3 units per day , then total work = 12×3=36 units
Hence, all three together will complete the work in $\frac{36}{9} = 4$ days

∴ Quantity I > Quantity II

96. (1) $\frac{13500}{SP} = \frac{20}{100}$

⇒ SP = Rs. (13500 × 5)
Let, No. of units sold be 'x', then
6000 × x + 13500 = 13500 × 5
Or, 6000x = 4 × 13500
Or, x = 9

97. (1) Let total profit made be Rs. P,

Then, $\frac{P}{SP} = \frac{30}{100}$

$\Rightarrow$ Total S.P. $= \frac{10P}{3}$

Now,

$7000 \times 10 + P = \frac{10}{3}P$

Or, $70000 = \frac{7P}{3}$

$\Rightarrow P = 30000$

Total SP $= \frac{10}{3}P = 100000$

Profit per unit $= \frac{30000}{10} = 3000$

98. (3) Average C.P. of a unit of Adidas, Campus and Sparx $= \frac{6000+3000+4500}{3}$

$= \frac{13500}{3}$

$= 4500$

Average C.P. of Lotto, Sparx and Reebok $= \frac{7000+5000+4500}{3}$

$= \frac{16500}{3}$

$= 5500$

Required % $= \frac{(5500-4500)}{5500} \times 100 = \frac{1000}{5500} \times 100 = 18.18\%$

99. (4) Ratio of efficiencies of Bibhor and Ahmed = 2 : 3
Ratio of efficiencies of Bibhor and Deepak = 5 : 4
Ratio of efficiencies of Deepak, Bibhor and Ahmed is 8 : 10 : 15
Suppose they fill 8, 10 and 15 units per hour respectively.
Total units of water to be filled = (8 + 10 + 15) × 20 = 660 units
Time taken by Bibhor to fill the tank alone $= \frac{660}{10} = 66$ hrs.

100. (4) Units of water filled in 1st hr. = 8 + 10 = 18 units
Units of water filled in 2nd hr. = 10 + 15 = 25 units
Units of water filled in 3rd hr. = 15 + 8 = 23 units
Units of water filled in 3 hrs. = 18 + 25 + 23 = 66 units
Total time taken to fill the tank = $3 \times \frac{660}{66} = 30$ hrs.

101. (4) According to the passage, all of the above have been mentioned as socialists. Hence, option (d) is the right choice.

102. (1) Refer to the line from paragraph 2...,"Whatever may be the difficulties of the first of these two forms of socialism, the second must evidently involve the same difficulties and many more" which explains that option (a) is the right answer choice.

103. (3) The answer to this question can be found in paragraph 1 of the passage. It explains that the first believe in gradual change while the others believe in revolutionary change. Option (c) is the right choice.

104. (3) According to the passage, both have been mentioned as the characteristics of the two. Option (c) is the right answer. Refer to the lines: It must be acknowledged that those who would play this game on the strength of their own private opinion, unconfirmed as yet by any experimental verification-who would forcibly deprive all who have now a comfortable physical existence of their only present means of preserving it, and would brave the frightful bloodshed and misery that would ensue if the attempt was resisted-must have a serene confidence in their own wisdom on one hand and the recklessness of other peoples' suffering on the other, of which, Roberspierre and St. Just, were hitherto the typical instances, scarcely came up to. Now you might be tempted to read the last four words of the above extract (scarcely came up to) in continuation with the last bit and assume that Roberspierre and St. Just scarcely come up to these values. But in reality, the sentence should be read as: It must be acknowledged that those who would play this game on the strength of their own private opinion, unconfirmed as yet by any experimental verification... scarcely came up to. Considering this, option (c) is the correct answer in this case.

105. (3) This is another easy question. Option (c) does not find a mention in the passage.

106. (2) It is directly given in the passage that the aum of revolutionary socialism is to take over everything and then things in one go. This makes option (b) the correct answer.

107. (1) Refer to the sentence: And with this view some of them avow as their purpose that the working classes, or somebody on their behalf, should take possession of all the property of the country, and administer it for the general benefit. Avow means: assert or confess openly Proclaim means: State or announce.

108. (1) The author does not exhibit sympathies for any one side in particular. He adopts a descriptive approach in the passage.

109. (3) The paragraph is talking about the positive announcement made by Russian mass media regarding China's breakthrough in the Arctic for the purpose of signing an agreement. The sentence before the blank tells that the signing took place on the Nanhai-8, Chinese deepwater semi- submersible drilling rig. Hence the blank must be filled by the sentence related to the rig, Nanhai-8. Sentence (c) is giving the description of Nanhai-8 and hence making the paragraph complete. Hence option (c) is correct choice.

110. (2) The sentence revolves around the theme of seeking advantage of AI for economic and societal development of China. The sentence before the blank is about shaping the development of AI in accordance with the interests of political party hence the blank must be filled by the sentence talking about AI in relation with social and economic challenges. Sentence (b) is in agreement with the paragraph and hence is the correct choice.

111. (5) The paragraph revolves around the theme of Fiji, the first Pacific island country ,hosting and leading a UN Conference of the Parties. The sentence before the blank tells about hosting of conference by Fiji while sentence after the blank is about the keen participation of Fiji in the conference for building empathy and trust. Hence the blank must be filled by the sentence related to the role of Fiji in the COP. Going through the given sentences, we find that sentence (e) is going appropriately with the theme of the paragraph telling about Fiji becoming a prominent leader. Hence option (e) is the correct choice.

112. (3) The paragraph revolves around the theme of setting up of an authority for proper implementation of Goods and services tax. The sentences before the blank is about the function of the authority hence the blank must be filled by the sentence related to the authority and consumers. Going through the sentences, we find that sentence (c) is in agreement with the paragraph.

113. (4) The paragraph is all about the need for proper utilization of water both in agriculture and industry. The sentence before the blank talks about the method to use the water for different purposes. Hence the blank must be filled by the sentence related to this theme. Going through the sentences, we find that sentence (d) goes correctly with the paragraph telling that uniform policy or formula would not be effective for the whole country. Hence option (d) is the correct choice.

114. (3) Correct Choice is option (c). Statement B is most likely the starting sentence. Now that we know statement B is the starting statement A and C gets eliminated as second sentence. Statement E follows B, which is then followed by A and C.

Now we can see Sentence D has no correlation with aerospace industry, and its business, We can rule out Sentence D.

115. (5) Correct Choice is option (e). Statement B logically initiate the discussion, followed by B, which further elaborates Idea introduced in E. Subsequently A explains C. Hence EBCA is the apt choice.

Hence we can rule out Option D as it is not contributing to provide coherent meaning.

116. (3) Correct Choice is option (c). Statement E starts the discussion, followed by C , 'He' is the hint . Here 'He' refers to CHARLES DARWIN. Then comes statement A, which elaborates "types of sounds", which is referred in statement C. Statement D is the concluding statement. B is ruled out as it is out of context.

117. (2) Correct Choice is option (b).
Statement D initiates the discussion, followed by B and C .
Statement A concludes the statement.
Statement E is out of context.

118. (4) Correct Choice is option (d) .Statement E is out of context.
Correct choice is BDCA.

119. (4) If the sentence (E) is the last sentence of the paragraph, the sentences in the sequence of AFDCE form a coherent paragraph which is about the reasons behind high volatility in onion prices. However, the sentence (B) finds no alternative to be matched with as it talks about manifold increment in something which has no relevance from any other sentences among the given options. Hence (d) is the correct option as the sentence (B) does not belong to the paragraph so formed.

120. (3) If the sentence (A) is the second sentence of the paragraph, the sentences in the sequence of DACEB form a coherent paragraph which is about moral and juridical rules related to traffic restrictions. However, the sentence (F) finds no alternative to be connected with as it talks about the effect of some problem which finds no relevance from any other sentences given as options. Hence (c) is the correct choice of elimination as the sentence (F) is not the part of the paragraph so formed.

121. (1) 'cluster, amply' fits the two sentences most appropriately.
Cluster means a group of similar things or people positioned or occurring closely together.
Amply means enough or more than enough; plentifully.
Covetously means having or showing a great desire to possess something belonging to someone else.
Congregate means gather into a crowd or mass.

122. (3) 'Sleight, equivalence' is the correct choice for the given question.
Sleight means the use of dexterity or cunning, especially so as to deceive.
Ineptitude means lack of skill or ability.
Parellelism means the state of being parallel or of corresponding in some way.
Ineptness means without skill or aptitude for a particular task or assignment; maladroit

123. (3) Option (c) is the correct choice. Refer the word discernable which means able to be discerned; perceptible. Therefore the environmental goals were not met even after the ban hence option (c), if true, is ill suited to the corporation's environmental goals.

124. (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)While Air Chief Marshal BS Dhanoa was fully entitled to comment on the technical aspects of the combat aircraft, since price negotiations are not directly handled by the IAF, there was little requirement for him to insist that it was a better price than what was secured by the previous government when processing plans to acquire 126 jets.

(II)As price negotiations are not directly handled by the IAF, there was little requirement for Air Chief Marshal BS Dhanoa, who was fully entitled to comment on the technical aspects of the combat aircraft, to insist that it was a better price than what was secured by the previous government when processing plans to acquire 126 jets.

125. (5) All the three starters are correct enough to form three logical sentences without altering the meaning of the actual sentence.

(I)Completing the full course of the drug is routinely emphasized by the doctors, but new research suggests that an extended treatment course is appropriate only for certain cases.

(II)Though the doctors routinely emphasize to complete the full course of the drug, new research suggests that an extended treatment course is appropriate only for certain cases.

(III)Despite the fact that the doctors routinely emphasize to complete the full course of the drug, new research suggests that an extended treatment course is appropriate only for certain cases.

126. (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)Banking on its belief that airlines wanted efficient and not giant flying machines, Boeing focused all efforts and resources on developing a new lightweight plane, with more fuel-efficient carbon fibre composites.

127. (3) Refer the second sentence of the first passage, "Existentialism is notoriously difficult to define, especially since it claims a varied philosophical background, drawing from Rene Descartes, SorenAabye Kierkegaard, Friedrich Wilhelm Nietzsche, and Martin Heidegger."

128. (2) Sartre the propounder of the concept was French.

129. (3) The third paragraph dwells on the portrayal of existentialists' image in America.

130. (4) Apotheosise means elevate to, or as if to, the rank of a god; idolize and glorify means describe or represent as admirable, especially unjustifiably. Hence the correct choice is (d)

131. (4) Refer the last two sentences of the passage.

132. (1) Refer the second-last sentence of the first paragraph.

133. (2) Option (b) is the best title for the passage.

134. (1) The given paragraph is about the impact of excess use of screen or technology on kids these days. Read the paragraph carefully, it can be easily viewed that among the given options, only the sentence (a) forms the correct substitution to the provided blank space. Other options do not go with the theme of the paragraph. They alter the meaning of the paragraph. Hence (a) is the correct choice.

135. (3) Read the paragraph carefully, it is about the most famous sweet of West Bengal "rosogolla" and the conflicting scene related to it. Among the given options, only sentence (c) 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 (c) is the correct choice.

136. (2) The given paragraph is about Italy's poor show in the game of football and its failure to qualify for Football World Cup. There is an indication in the sentence prior to the blank space that talks about the history of Brazilian football team of 1970s. It clearly states that among the given options, only sentence (b) fits perfectly into the space provided as it follows the other sentences in a proper order to bring out an appropriate meaning to the paragraph. Other options are irrelevant to this particular paragraph. Hence (b) is the correct choice.

137. (4) The paragraph is about the organizational learning and training motives along with the importance of work culture associated with it. Read the paragraph carefully, among the given options, there is only sentence (d) 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 (d) is the correct choice.

138. (1) The paragraph is all about strengthening India's institutions which has been nicely explained here. Read the paragraph carefully, it can be easily drawn that the only sentence that follows the pattern of the theme of the paragraph is (a). It adds meaning to the paragraph and at the same time it concludes the paragraph in the most evident way. Other options, though related to the same subject, are not relevant enough to be the part of this particular paragraph. Hence (a) is the correct choice.

139. (3) There are some grammatical errors in the sentences (II) and (IV). In the case of sentence (II), the plural verb " represent " should be replaced by its singular form " represents " as the subject it refers is in singular form [" Every individual"]. Moreover, when " every " refers to the subject of the clause, we use a singular verb . In the case of sentence (IV), there is a similar case of mistake, the singular verb " states " should be replaced by its plural form " state " as the subject it refers is in plural form [" our traditional ayurvedic texts"]. The other two sentences are grammatically correct. Hence option (c) is the correct choice.

140. (2) There is a grammatical error in the second part of the sentence; the phrase " has been still plying to some urban centers " should be replaced by "still ply in some urban centers " as it is the correct expression in the context of the sentence structure. The other two parts of the sentence are grammatically and contextually correct and do not require any correction. Hence option (b) is the correct choice.

141. (4) There is a grammatical error in the sentence (d); the plural verb " have " should be replaced by its singular form " has " as the subject in this case is singular [" China"]. The subject is " China ." That is the entire subject. " Along with Russia " is a prepositional phrase. A prepositional phrase is never a part of the subject. It does not affect the count of the subject. Whatever is said in a prepositional phrase, no matter how plural it may be, does not make a singular subject plural. The only thing that can make an otherwise singular subject plural is the conjunction " and ." If the

word " and " were used instead of " along with ," then the verb would be " have ." Other sentences are grammatically correct. Hence option (d) is the correct choice.

142. (5) All the three sentences are grammatically correct and do not require any correction. Hence option (e) is the correct choice.

143. (4) If (D) is the first sentence, the correct sequence of other sentences after rearrangement should be BAECF. The sentences (B) and (A) make a clear connection as the mention of demonitisation and GST in the sentence (B) can be followed up with the mention of " Both policies" in the sentence (A). The sentence (F) clearly suggests that it should be the concluding sentence. Thus sentences in the sequence of DBAECF form a coherent paragraph which is about whether demonetisation and the GST have aggravated income inequality. Hence option (d) is the correct choice.

144. (3) The author means to say that the game theory strategized by John Harsanayi is so tricky that it can take the mind of even skilled chess players.

145. (1) Explained in the second paragraph "They guessed, or relied on "intuition" or, as Napoleon said of his favorite generals, they were lucky. Until quite recent items, this was the way countries and great companies dealt with their rivals." Hence option (a) is the correct choice.

146. (3) Refer the second sentence of the third paragraph. "It was possible to analyze such games and provide guidance about the probable moves and their outcomes. "

147. (1) Explained in the fourth paragraph. "A Dutch team of economists applied the theory to international football and concluded that a bad team playing at home is more likely to score than a good one playing away. One effect of game theory is to make economists seem quite human."

148. (4) Refer the fifth paragraph "Players of poker, and of course chess, had been using game theory without calling it that".

149. (2) The whole passage revolves around the work of Mr. Harsanyi that how he applied mathematical Logic to human urge to improve the condition of human.

150. (4) Tussle means a vigorous struggle or scuffle, typically in order to obtain or achieve something. Hence it has same meaning as skirmish.