RACE

Syndicate Bank PO PGDBF Grand Test – SBPO180208

ANSWER KEY

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

HINTS & SOLUTIONS

1-5. This is question of Coding-Decoding based on new pattern. In these questions following logic's are applied to decode the code:-
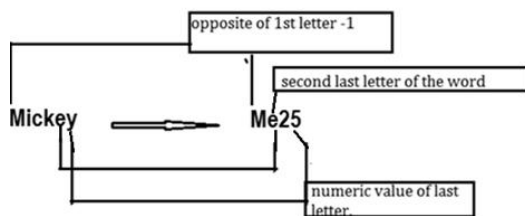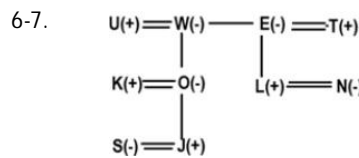

Ist letter of the code:- Previous letter of the reverse of first letter of the word.
2nd letter of the code:-Second last letter of the word.
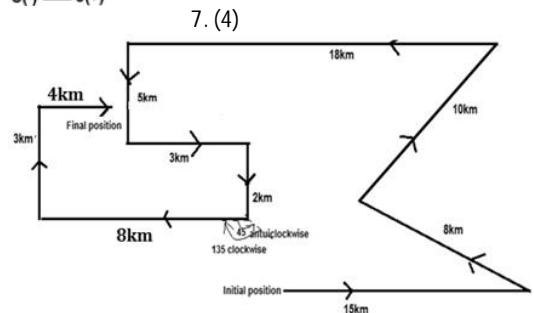3rd letter of the code:- Numeric value of the last letter of the word.

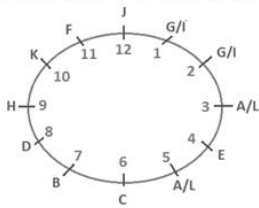1. (4)   2. (5)
3. (4)   4. (2)   5. (1)

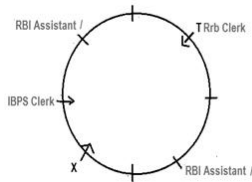6-7.

6. (4)   7. (4)

8-9.

8. (1)   9. (3)

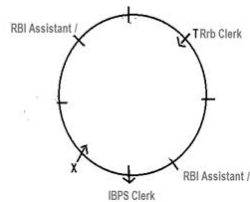**10. (1)** Both are sufficient to answer the question.

11-15. X faces T who has exam of Rrb Clerk. T sits third to the left of the one who gives exam of IBPS Clerk. Only one person sits between the who has exam of RBI Assistant and the one who has exam of Rrb Clerk So, there can be two cases:

R sits second to the right of X and has exam of UIIC Assistant. So, it is clear that the one who has exam of RBI Assistant is an immediate neighbour of the one who has exam of IBPS Clerk. Q sits between the one who gives exam of UIIC Assistant and IBPS PO. P is an immediate neighbour of T and sits to right of T. Both S and V sit next to each other and face same direction. So, it is clear that U will sit in between T and R.
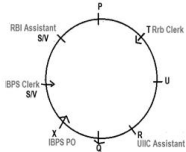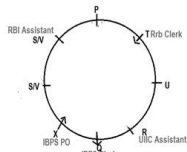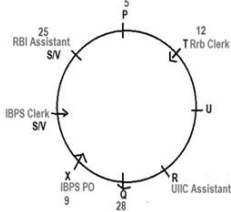

T has exam on even date. P's immediate neighbour has exam date which is a square of the exam date of P. So, only possibility is P's exam will be on 5 and his immediate neighbour has exam on 25. So, either S or V gives exam on 25. Q is facing outside of the center and gives exam after maximum number of persons. So, Q gives exam on 28. The one who has exam of IBPS PO has exam date which is a perfect square. So, X gives exam on 9. T has exam on even date. So, T gives exam on 12.
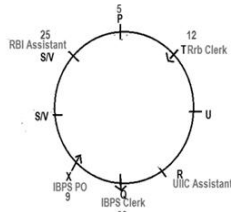

Neither S nor V gives the exam of IBPS clerk. So, case-1 will be eliminated. Now from case-2: The one who has exam of OICL AO has exam on date which is prime number but not 5. So, either S or V gives exam of OICL on 17. U has exam on the date which is an odd one and multiple of 5. The who has exam of RBI Assistant and the one who has exam of Rrb Clerk and both of them faces opposite direction to each other. V sits to the immediate right of the one who gives exam of RRB PO. The immediate left of the one, whose exam date is multiple of six, gives exam of IBPS SO.

So, U gives exam of IBPS SO. R has exam after more than one person. Only one person sits between the who has exam of RBI Assistant and the one who has exam of Rrb Clerk and both of them faces opposite direction to each other. Both S and V sit next to each other and face same direction. Both U and R faces same direction but opposite to S. So, final solution is----

11. (2)   **12. (4)**
13. (2)   **14. (5)**   **15. (3)**
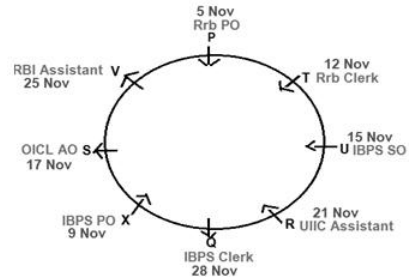
16-20. There are only three floors in between A and G. A lives above G. G lives on an even number floor and purchased Laptop. The one who lives on floor number 7, has purchased Shoes. B purchased Blanket lives on odd number floor but not on ground floor. Blanket is purchased from store R. H lives on floor number-5. The one who lives on top floor purchased item from store P. Only one person lives between the one who purchase shoes and the one who purchased an item from store T. So, there will be two possible cases:

Case-1:

Floors	Persons	Items	Stores
8			P
7		Shoes	W
6	A		
5	H		T
4			
3	B	Blanket	R
2	G	Laptop	
1			

Case-2:

| Floors	Persons	Items	Stores
8	A		P
7		Shoes	W
6			
5	H		T
4	G	Laptop	V
3	B	Blanket	R
2			
1			

There is no floor between A and H. So from this condition Case-2 will be eliminated. Now Case-1 is continued. C purchased an item from store V and lives on an even number floor. F purchased watch from store S. D does not purchase Shoes. Bag is being purchased from store Q. Mobile does not purchase from store T and P. The one who purchased an item from store U lives on an even number floor. Blanket is not being purchased from store W. There is more than one floor in between the one who purchased Mobile and Wallet. So, the final solution will be---

Floors	Persons	Items	Stores
8	D	Wallet	P
7	E	Shoes	W
6	A	Bag	Q
5	H	Ring	T
4	C	Mobile	V
3	B	Blanket	R
2	G	Laptop	U
1	F	Watch	S

16. (3)   **17. (2)**
**18. (5)**   **19. (3)**   **20. (5)**

21-25. From the given question, start from the point, the only person between E and F, has like Physics. It is also clear that D likes Chemistry and he belongs to China and is facing the person who likes Physics. It is also given that the person, who belongs to China, sits on the immediate left of the person who likes peace.
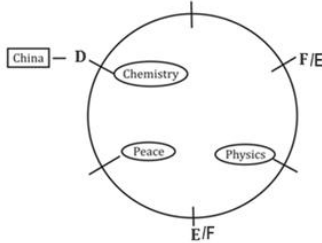
Now, move on the next point – The one who likes Literature sits on the immediate right of the person, who belongs to Japan but on the left of the person who likes Economics.

And it is also given that one who likes Medicine is sitting opposite the person, who belongs to Russia. F does not like Medicine. So E will be on the immediate left of the one who likes Physics and F will be on his immediate right.
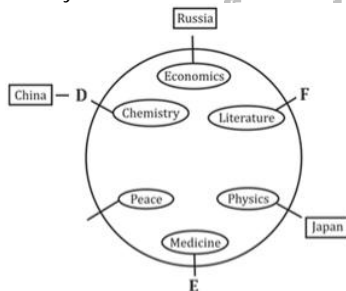
Now, The next given point is that A is neither from Japan nor sits on the immediate left of the person who likes Chemistry. So, A likes peace.

It is also given in the question,

Medicine
Economics } belongs neither from Japan nor from India
Peace

And persons from France and China, does not like Medicine and Literature.

From the above two points, it is clear that the person, who belongs to Germany likes Medicine. The person, who belongs to France, likes peace & the person, who belongs to India, likes literature. From the given point, C does not like Economics.

So the final arrangements are-
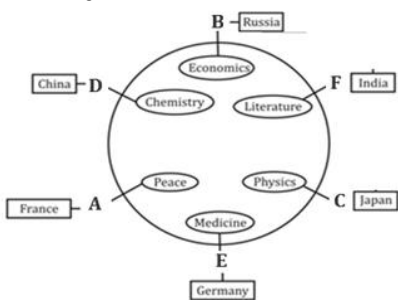
21. (3)   22. (3)
23. (3)   24. (5)   25. (5)

26-30. Number and letter both are arrange from left hand side together.

Pick a number in ascending order and word in descending order.

Number take as it is and if words first letter is vowel than add 'z' before word and if word started with consonant that add 'a'. And so on.

Input: troy 25 beyond intense harm 16 upper 33 admit 23 10 20 shoot 11 out 8.

Step I: 8 zupper troy 25 beyond intense harm 16 33 admit 23 10 20 shoot 11 out

Step II: 10 atroy 8 zupper 25 beyond intense harm 16 33 admit 23 20 shoot 11 out

Step III: 11 ashoot 10 atroy 8 zupper 25 beyond intense harm 16 33 admit 23 20 out

Step IV: 16 zout 11 ashoot 10 atroy 8 zupper 25 beyond intense harm 33 admit 23 20

Step V: 20 zintense 16 zout 11 ashoot 10 atroy 8 zupper 25 beyond harm 33 admit 23

Step VI: 23 aharm 20 zintense 16 zout 11 ashoot 10 atroy 8 zupper 25 beyond 33 admit

Step VII: 25 abeyond 23 aharm 20 zintense 16 zout 11 ashoot 10 atroy 8 zupper 33 admit

Step VIII: 33 zadmit 25 abeyond 23 aharm 20 zintense 16 zout 11 ashoot 10 atroy 8 zupper

Step VIII is the last step of the above arrangement.

26. (5)   27. (4)
28. (1)   29. (5)   30. (5)

31. (3) For I- This statement supports the given statement as it sates about the new strategy of combating terrorism in Pakistan, Afghanistan and South Asia.

For II-This statement does not negate the given statement as it describes about Pakistan's support towards terrorist who target Americans.

For III- This statement negates the given statement because it defines that Pakistan honour and respect a voice of their citizen and it is committed towards defeating terrorism whereas given statement states that US has taken tougher approach to Islamabad harbouring terrorists.

32. (2) The exposed articles by the publication must be verified so that the authentic and original content can publish. So the statement (b) is the correct assumption. Statement (c) cannot be assumed as verification of content does not depend upon minor or major publications. Statement (d) is not the correct assumption because it is given that publishers are more interested in boosting circulation but it cannot be assumed that Publishers are the persons who decide the content of the newspapers.

33. (2) Only better quality can put India back in the competitive field of black pepper production. So, India should go for modern technology for cultivating black pepper to compete in the present international market.

34. (4) For I-This statement is not-in-line with the given statement as it is about Mahabharata whereas given statement is about the Urdu version of Ramayana.

For II- This statement is in-line with the given statement as it describes about some additional information about the Urdu version of Ramayana.

For III- This statement is not-in-line with the given statement as nothing is mentioned about any programme in the given statement. .

35. (3) Statement (c) is the correct option because according to this the increase in crime rate has been contributed by

other factors, not leniency in the punishment. So, it weakens the given passage.

36. (2) As it is given that If the web hosting company Go-daddy provides the free service for 99 days only and the person is using that free service given in DFD and the person is facing problem to log-in on 100th day. So, the person should pay that certain amount, as per the company's terms and conditions to continue with the service.

37. (2) The person is dealing from merchant for the products and if a person selected an item and ordered it so after doing payment the order of the person will go for shipping to any of the Shipping services.

38. (5) Managing of the store can be inserted between the steps "Click on my store" and "business set-up" as after creating a store there is a need to manage it properly before setting up the business.

39. (4) If the Atlas shipping services deny for providing the shipping services than any other shipping service provider can be selected from the given options.

40. (5) If the domain name registered by a person is showing invalid then the possible reasons of this problem faced by the person will be either the domain name is already registered or it is an unauthorized domain name.

41-45. From the given conditions, N has invested in Bitcoin and Titcoin and earns the least. L has invested in Monero and earns more than P, M and R. S has invested in Litecoin and earns less than only O, who has invested in two crypto currencies. L is third from the top when they are arranged in descending order of earning. M earns more than R but less than P.

| Person	Crypto currency
L	Monero
M	
N	Bitcoin, Titcoin
O	- -
P	
Q	
R	
S	Litecoin

O> S> L> > > > >N

From the rest conditions, R, who earns more than Q, has invested in Bitcoin whereas Q has invested in Litecoin and Titcoin. Three of them have invested in two crypto currencies. Monero and Namecoin currency are not offered with any of the remaining three crypto currencies to any person. No two of them have same earning. None of the three is having the same set of two crypto currencies. So O either invested in Monero and Namecoin or Bitcoin and Litecoin.

So the final arrangements are-

Person	Crypto currency
L	Monero
M	Not invested
N	Bitcoin, Titcoin
O	Monero, Namecoin /Bitcoin, Litecoin
P	Not invested
Q	Litecoin, Titcoin
R	Bitcoin
S	Litecoin

O> S> L>P >M >R >Q >N

41. (4)   42. (4)
43. (4)   44. (4)   45. (3)
46. (2) From II- Sikha is 32th from the top.
From I and III- Sikha is 34th from the top.
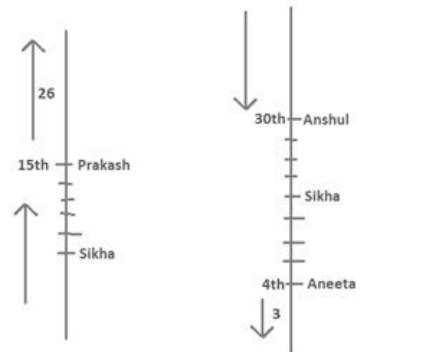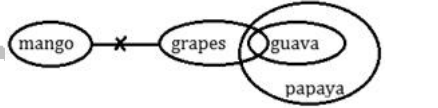

47. (5)

From I and II-

8-9	English
9-10	Math
10-11	Computer
11-12	Reasoning

From I and III-

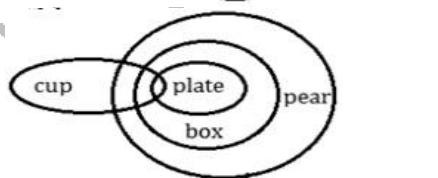| 8-9	English
9-10	Math
10-11	Computer
11-12	Reasoning

48. (4)

49. (3)

50. (1)

51. (3) Ratio of profits = Ratio of (amount × time)
Let, initial amounts of Raju, Rancho & Farhan be 5x, 7x and 9x respectively

$$5x \times 3 + 5x \times 3 : 7x \times 3 + \frac{7x}{2} \times 6 + 7x \times 3 : 9x \times 3 + 27x \times 6 + \frac{27x}{9} \times 3$$

$$= 10 : 21 : 66$$

$$\frac{(21-10)}{97} \times 11737 = 11 \times 121 = 1331 \text{ Rs}$$

52. (5) Ratio of their amounts at the end of 1st year
$$= 5 : 7 : 3$$
Share of Rancho $= \frac{7}{15} \times 22500 = 7 \times 1500 = Rs\ 10500$

53. (1) Ramu's discount:
8% on 8000 = 640
5% on 12000 = 600
3% on 16000 = 480
Total = 1720 on 36000
Final S.P. for Ramu = 34280
Shyamu's Discount:
7% on 12000 = 840
6% on 8000 = 480
5% on 16000 = 800
Total = 2120 on 36000
Final SP for Shyamu = 33880
C.P. for both of them = $36000 \times \frac{100}{125} = 28800$
Ramu has greater Profit
Profit% for Ramu = $\frac{(34280-28800)}{28800} \times 100 = 19\%$ (approx.)

54. (1) Ramu's Discount:
8% on 8000 = 640
4% on 12000 = 480
1% on 16000 = 160
Total = 1280 on 36000
Final SP for him = 36000 – 1280 = 34720
Profit = 34720 – 28800 = 5920

55. (3) Area of $\triangle ABC = \frac{1}{2} \times 15 \times 20 = 150\ sq.\ cm.$

$AB = \sqrt{AC^2 + BC^2} = \sqrt{225 + 400} = \sqrt{625} = 25$

Area of $ABC = \frac{1}{2} \times 25 \times CD = 150$; $CD = 12\ cm.$

PQ = Radius of incircle of ACD + Radius of incircle of BCD

Radius of incircle triangle ADC

Inradius $= \frac{\frac{1}{2} \times 9 \times 12}{18} = 3$

Area of BDC = r × s

Area of BDC $= \frac{1}{2} \times 12 \times 16 = 96$

$96 = r \times \left(\frac{12 + 20 + 16}{2}\right) = 24r \Rightarrow r = 4 \therefore PQ = 7$

56. (4) A → 4% = 20 marks

100% = 500 marks

Passing marks $= \frac{38}{100} \times 500 + 8 = 198$

B → 35% of x + 25 = 40% of x

$x = 500$

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

C → data inadequate

So either (A) or B is sufficient

57. (5) A → Let no. of clerks and supervisors are $4x$ and $5x$

C → total salary of clerks = 125000

Salary of supervisors = 285000 − 125000

= 160000

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

58. (3) A → $T_{sudhir} = \frac{3}{4}$ year

B → Saket = 450000 Rs.

C → Profit = 55000

D → 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

59. (3) A → $3828 \times \frac{100}{120} = CP = 3190 Rs.$

B → 1b + 1p = 90

C → (b + p) – (b – p) = 28

P = Rs. 14

b = 90 – 14 = 76

30b + 65p = 3190 Rs.

60. (5) (60 - 45)% = 12.5 + 4

100% $= \frac{16.5}{15} \times 100 = 110$

$x = 49.5, y = 55, z = 66, w = 62$

So none of the statements is required

61. (1) Cost price of 20 kg of wheat for retailer

$= 20 \times 25 \times \frac{90}{100} = Rs.\ 450$

Price at which he sold this amount of wheat to customer

$= 20 \times 25 \times \frac{95}{100}$

= Rs. 475

Profit = 475 – 450 = 25

62. (2) Cost price of cashew for retailer = Rs. 900

Price at which he sold all the cashew $= 40 \times 30 \times \frac{125}{100}$

= Rs. 1500

Profit % $= \frac{1500 - 900}{900} \times 100 = 66.66\%$

63. (3) Cost price of Rice for Retailer = 20×15×90/100

= Rs. 270

To be in a situation of no loss –no gain, he must sell remaining 50% at Rs. 270.

Price per kg = 270/10= Rs. 27

64. (4) Cost price of pulses for the retailer $= 18 \times 35 \times \frac{70}{100} = Rs.\ 441$

Cost price of 2 kgs of Almond $= 2 \times 40 \times \frac{85}{100} = Rs.\ 68$

Total CP = 441 + 68 = Rs. 509

Total SP $= 18 \times 35 \times \frac{130}{100} = Rs.\ 819$

Profit % $= \frac{819 - 509}{509} \times 100 = \frac{310}{509} \times 100 \approx 61\%$

65. (3) Cost price per kg of sugar $= \frac{240}{15} = 16$

Discount offered by wholesaler $= \frac{4}{20} \times 100 = 20\%$

Discount offered by retailer to customer $= \frac{75}{100} \times 20\% = 15\%$

Selling price of mixture $= (6 + 15) \times 20 \times \frac{85}{100}$

= 357

Profit %$= \frac{357 - 240}{240} \times 100 = \frac{117}{240} \times 100 = 48.75\%$

66. (2) Distance covered by Aman in three hours = 3 × 5 = 15 km

In 10 min. relative distance $= (20 - 5) \times \frac{10}{60}$

$= 15 \times \frac{10}{60}$

$= \frac{10}{4} = 2.5\ km$

Remaining distance = 15 – 2.5

= 12.5 km

$Now, \frac{12.5}{t} = (20 - 10)$

$\frac{12.5}{t} = 10$

$t = \frac{12.5}{10} = 1.25\ hrs = 1\ hr\ 15\ min.$

∴ Required time = 11:00 + 0:10 + 1:15 = 12:25 pm.

67. (3) Ratio of their speed = 35 : 30 = 7 : 6

If Abhishek covers 250 km then at the same time Gaurav covers =

$\frac{250}{7} \times 6 = \frac{1500}{7}$

After Abhishek reach at tree D,

Distance between them $= 250 - \frac{1500}{7}$

$= \frac{250}{7}$

To cover $\frac{250}{7}$ km, time required to meet them $= \frac{250}{7 \times (35 + 30)}$

$= \frac{250}{455} = \frac{50}{91}$

Required distance $= \left(250 - \frac{35 \times 50}{91}\right)$

$= \frac{22750 - 1750}{91}$

$\approx 230\ km$

68. (1) To reach at tree E, time taken by Nitesh $= \frac{700}{25} = 28\ hr$

Stopping time = 4 × 30 min

= 120 min

= 2 hr

Total time = 28 + 2 = 30 hrs

69. (5) Required time $= \frac{750 - 600}{(30 + 20)}$

$= \frac{150}{50}$

= 3 hrs.

70. (1) Average speed $= \frac{750}{\frac{400}{20} + \frac{350}{18}}$

$= \frac{750}{32\frac{7}{9}}$

$= 22\frac{52}{59}\ km/hr$

71. (2) Series is

+15, +30, +45, +60, +75

So, 47 + 45 = 92

72. (3) Series is

1 × 0.5 + 0.5, 1 × 1 + 1, 2 × 1.5 + 1.5, 4.5 × 2 + 2, 11 × 2.5 + 2.5

So, 4.5 × 2 + 2 ⇒ 11

73. (4) Series is

÷ 2, × 1.5, ÷ 2, × 1.5, ÷ 2, × 1.5

So, 112.5 ÷ 2 = 56.25

74. (2) Series is

$+3^2, +5^2, +7^2, +9^2, +11^2$

So, 344 + 121 = 465

75. (1) Series is

$+2^2, +3^3, +4^2, +5^3, +6^2$

So, $54 + 5^3 = 179$

76-80.

Patna	Male	Female	Total population
Ist year	44000	40000	84000
IInd Year	66000	60000	126000
Lucknow			
Ist year	40000	40000	80000
IInd year	40000	50000	90000

76. (4) Female in Lucknow in IInd year = 50000

77. (5) Total population of Patna in IInd year = 126000

78. (3) Let price of sofa set = x Rs

Price of centre table = 0.4x Rs

Amount paid by Mohit = $\frac{75}{100} \times (0.4x) + \frac{90}{100} \times x$

= 1.2x

but actual amount should be = $\frac{75}{100} \times x + \frac{90}{100} \times 0.4x$

= 1.11x

required percentage = $\frac{0.09}{1.11} \times 100 = 8.1\%$

79. (2) The probability of at least one red ball = 1 – (probability of no red ball)

= $1 - \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$

= $1 - \frac{1}{16}$

= $\frac{15}{16}$

80. (3) The probability of at least one blue ball = 1 – (Probability of no blue ball)

= $1 - \frac{2}{3} \times \frac{2}{3} \times \frac{2}{3} \times \frac{2}{3}$

= $1 - \frac{16}{81}$

= $\frac{65}{81}$

81. (2) $\approx \frac{1}{3} \times 27 + \frac{\sqrt{x}}{2} = \sqrt{x} - \frac{35}{5}$

$\approx 9 + \frac{\sqrt{x}}{2} = \sqrt{x} - 7$

$\approx 16 \times 2 = \sqrt{x}$

≈ 1024

82. (1) $\approx \frac{70}{100} \times 85 + x^2 + 19 \times 3 = 5x^2 + 52$

$\approx 59.5 + 57 = 4x^2 + 52$

$\approx \frac{64}{4} = x^2 \Rightarrow 4$

83. (5) $\approx 40 \times 20 + 14x = 1450 - 936$

$\approx 800 + 14x = 2450 - 936$

$\approx 14x = 1650 - 936$

$x = \frac{714}{14}$

$x = 51$

84. (1) $\approx 64 + 36 + \sqrt{x} = +19 + 101$

$\approx \sqrt{x} = 20$

$\approx x = 400$

85. (4) $\approx \frac{3}{4} \times 480 + \frac{x}{100} \times 540 = 603 + 297$

$\approx 360 + \frac{x}{100} \times 540 = 900$

$540x = 100 \times 540$

$x = 100$

86-90. following data table can be formed from the information provided.

Company	Sales	Expenses	Profits
AZ	10	9	1
BMZ	12	9.6	2.4
CW	12	10	2
DT	6	4	2

86. (3) The respective profit percentages would have been 40% and 16.66% — a ratio of 12 : 5.

87. (1) 2/11.25 = 17.77%

88. (4) Lowest total expense = 4 million for DT.

89. (1) Lowest profits = 1 million for AZ.

90. (3) The required ratio is 1 : 2.4 = 5 : 12.

91. (1) Quantity 1:

bunty alone can complete the work in ⇒ x days

Babli→ y days

$\frac{1}{x} + \frac{1}{y} = \frac{1}{8}$

$\frac{2}{x} + \frac{1}{3y} = \frac{1}{6}$

Let $\frac{1}{x} = a, \frac{1}{y} = b$

$2a + \frac{b}{3} = \frac{1}{6}$

$a + b = \frac{1}{8}$

Solving the equations $b = \frac{1}{20}, = \frac{3}{40}$

$X = \frac{40}{3}$ or $13\frac{1}{3}$ days

Quantity 2 < Quantity 1

92. (2) Quantity 1: Let C.P. of both shirts be Rs. 100

Total C.P. = Rs. 200

Total S.P. of both shirts = 1.2 × 100 + 0.9 × 100 = Rs. 210

Overall profit = $\frac{(210-200)}{200} \times 100 = 5\%$

Quantity 2 : Let C.P. of one-metre cloth be Rs. x

And S.P. of one-metre cloth be Rs. y

Then,

$20y - 20x = 5x$

$\Rightarrow 20y = 25x$

$\Rightarrow \frac{y}{x} = \frac{5}{4}$

Profit% $\frac{(5-4)}{4} \times 100 = 25\%$

Quantity 2 > Quantity 1

93. (2)
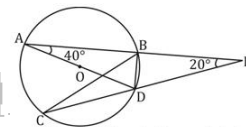
∠ABD = 90° (angle in semicircle)

∠DBP = 90°

∠BCD = ∠DAB = 40° (angle subtended by same arc in same segment)

∠BCD + ∠CPB + ∠DBC + ∠DBP = 180°

⇒ 40° + 20° + ∠DBC + 90° = 180°

⇒ ∠DBC = 30°

∠ADB = 180° - ∠DAB - ∠ABD = 180° - 40° - 90° = 50°

Quantity 2 > Quantity 1

94. (1) Quantity I = $\frac{100}{120} \times 120 \times 5$

= 100 × 5

= 500km

Quantity II → $\frac{d}{15+3} + \frac{d}{15-3} = 25$

$\frac{d}{18} + \frac{d}{12} = 25$

$\frac{5d}{36} = 25$

d = 180 km

∴ Quantity I > Quantity II

95. (2) Quantity I = $\frac{125}{100} \times (225 - 75)$

= $\frac{125}{100} \times 150$

= 187.5

Quantity II = $\frac{13}{100}\left(\frac{125}{100}\right) \times 1200$

= 195

∴ Quantity I < Quantity II

96. (4) Let C.P. = 100

SP = 115

$115 = \left[1 - \frac{25}{600}\right] \times MP, MP = 120$

$120 - 115 \rightarrow \frac{10}{39} \times 975$

5 → 250

CP → $\frac{100}{5} \times 250 = 5000$

Manufacturing cost = 5000 − (2885 + 975)

= 1140 Rs.

Required percentage = $\frac{1140}{5000} \times 100 = 22.8\%$

97. (3) $\frac{T}{R+M} = \frac{47}{168}, T = \frac{47}{168} \times (2220 + 1140)$

T = 940 Rs.

Total cost price = 940 + 3360 = 4300

$SP = \left(1 + \frac{500}{4300}\right) \times 4300 = Rs. 4800$

$MP = 4800 \times \frac{100}{96} = 5000 Rs.$

98. (5) Total cost = $\frac{2600}{2215} \times 4430 = Rs. 5200$

SP = 5200 + 320 = 5520 Rs.

$MP = 5520 \times \frac{100}{92} = 6000 Rs.$

Required difference = 6000 − 5520 = 480 Rs.

99. (3) Total cost of 1 piece = $\left(\frac{237.5}{100} \times 480\right) + 2885 + 975$

= 5000

Cost price of 11 pieces = 55000

Total SP = 63250

SP per piece = $\frac{63250}{10}$ = 6325 Rs.

100. (1) Number of packs bought by customer = 12

Number of gift soaps received

= Integer part of $\left(\frac{12}{5}\right) = 2$

Total number of soaps received by the customer = (4×12)+2=50

Total money paid by the customer = 12 × 3 × s, where s is the listed sale price of each soap

For 50 soaps, the listed sale price = 50s

Actual amount paid is 36s

Hence, discount is 14s

Discount percentage = $\left(\frac{14s}{50s}\right) \times 100 = 28\%$

101. (2) The author is primarily concerned with refuting a thesis about the distinctiveness of the culture of the early American South, hence option (b) is the answer. (It is mentioned in the last line of the passage). Option (a) is incorrect as the keyword claim is not mentioned in the passage. Similarly, options (c) and (d) are incorrect. Hence, the answer is option (b).

102. (4) The passage implies that the attitudes Native Americans that prevailed in the Southern colonies differed from those that prevailed in the Puritan colonies, hence answer is option (d). It is mentioned in the passage about the attitudes towards Native Americans that prevailed in the Southern colonies. Other options are incorrect as per the passage given. Hence, the answer is option (d).

103. (1) As it is given that – The American culture that emerged during the Colonial and Revolutionary eras has been depicted as having been simply an extension of New England Puritan culture, therefore, the answer is option (a), which is clearly mentioned in the passage. Option (b), is incorrect, as it is not reflecting the culture. Similarly, options (c) and (d) are incorrect. Hence, the answer is option (a).

104. (4) The answer is option (d) as information II and III are mentioned in the passage, whereas information I is not given in the passage. So, options (a), (b) and (c) are incorrect. Hence, the answer is option (d).

105. (3) The answer is option (c) that is spreading to Massachusetts and Connecticut. Other options are incorrect as per the condition given in the question above. Hence, the answer is option (c).

106. (2) Here option B most logically follows the last sentence of the passage and so option (b) is the answer. It is given that – the larger framework of American colonial life, then, not the Southern but the Northern colonies appear to have been distinctive, and even they seem to have been rapidly assimilating to the dominant cultural patterns by the last colonial period. Options A, C and D are incorrect, as per the passage is concerned. Hence, the answer is option B.

107. (1) Consequently means as a result hence accordingly is the word which is most similar in meaning.

108. (5) Ascribed-attribute, regard something as being due to (a cause),regard a text, quotation, or work of art as being produced by or belonging to (a particular person or period),regard a quality as belonging to.

109. (3) Enormous -very large in size, quantity, or extent.

110. (4) Peculiarly- more than usually; especially, in an unusual way; oddly, used to emphasize restriction to an individual or group.

111. (5) All the given sentences are grammatically correct and hence they don't require any correction.

112. (4) In the first part of the sentence, the phrase " is at the seasons' worst " should be replaced by " has been at the seasons' worst " as the use of " for the last couple of days" indicates that the sentence is in Present Perfect Continuous form. In the second part, the present form of the phrase " is turning the region " should be replaced by its past form " turned the region " as it is clearly mentioned that the sentence is depicting the action of the past [for the last couple of days]. In the third part of the sentence the phrase " to gasp the people " is totally irrelevant and meaningless; it should be replaced by the correct phrase " leaving people gasping " to make the sentence grammatically correct. Thus all the three parts of the sentence require corrections in their bold parts. Hence (d) is the correct choice.

113. (4) There is a grammatical error in the sentence (d), the singular verb " is " should be replaced by its plural form " are " as it refers to more than one subject i.e. " crime and punishment." The other sentences are grammatically correct. Hence (d) is the correct choice.

114. (5) All the given sentences are grammatically correct. Hence (e) is the correct choice.

115. (3) If (A) is the first sentence, the correct sequence of other sentences after rearrangement should be DCBE. As the first sentence is interrogative, the second statement should answer the same which could be found in the sentence (D). The other sentences in the sequence of (C), (B) and (E) follow one another to make a complete paragraph. Thus sentences in the sequence of ADCBE form a coherent paragraph which is about the expression and definition of the term " pull to par ." Hence (c) is the correct choice.

116. (4) Exodus means a mass departure of people while Egress comes from a Latin word meaning "going out." An egress is basically the same thing as an exit. Hence and exodus and egression has almost a similar meaning and therefore option (d) is the correct choice.

117. (3) quintessential means representing the most perfect or typical example of a quality or class. Archetypal means very typical of a certain kind of person or thing. Hence quintessential and archetypal have similar meaning and therefore option (c) is the correct choice.

118. (3) Stymie means prevent or hinder the progress of. Oblige means do as (someone) asks or desires in order to help or please them. Hence stymie and oblige are opposite in meaning and therefore option (c) is the correct choice.

119. (4) Clamour means a loud and confused noise, especially that of people shouting.

Reticence means not revealing one's thoughts or feelings readily; reserve.

Hence clamour and reticence are opposite in meaning.

120. (1) Depraved means morally corrupt; wicked. Nefarious means (typically of an action or activity) wicked or criminal. Hence depraved and nefarious are similar in meaning.

121. (3) Read the paragraph carefully, it is about the crisis of credibility that the Supreme Court of India is facing since the Emergency. Among the given options, there is only sentence (c) that fits perfectly into the blank space. The sentence adds meaning to the paragraph and at the same time it correctly follows the first and the second sentences of the paragraph. Other options are irrelevant in the context of the paragraph. Hence (c) is the correct choice.

122. (1) The paragraph is about Nehru's way of seeing the world, his ideas of science and idealism associated with it. The last sentence of the paragraph gives an apt evidence that the sentence preceding it would be option (a). Moreover, among the given options, only statement (a) 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 (a) is the correct choice.

123. (5) The given paragraph is about the first and the second phases of Regional Connectivity Scheme (RCS), which aims to provide air connectivity to the hinterland to provide an impetus to the economic growth of regional centres, including unconnected towns and cities. Read the last two sentences of the paragraph carefully, it gives a direct clue that option (e) provides the most appropriate conclusion to the paragraph as it maintains the flow of the theme. Moreover, it carries a logical sequence to other sentences given in the paragraph. Other options are not relevant enough to be the part of this particular paragraph. Hence (e) is the correct choice.

124. (2) The paragraph is about the quadrilateral security dialogue between senior officials of India, United States, Japan and Australia. Among the given options, there is only sentence (b) 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 (b) is the correct choice.

125. (4) The paragraph is all about the new report that addresses need for data on the country's disease burden and identifies challenges for policymakers. Among the given options, only sentence (d) 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 (d) is the correct choice.

126. (2) The paragraph talks about the rent agreement, defining all the legal terms and conditions related to it. It can be viewed in the sequence of "edca"which forms the coherent paragraph. Option (b) doesn't fit in this sequence as it refers to some professional fees for all the paperwork which doesn't find connection with any other sentences. Hence option (b) is the correct choice of elimination.

127. (4) There is a grammatical error in the sentence (d). The phrase "in term of" should be replaced by "in terms of" as "in terms of" is the correct phrase which means "with regard to the particular aspect or subject specified ." The other sentences are grammatically correct. Hence (d) is the correct choice.

128. (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)Despite explicit understanding between India and the US that Pakistan must not allow terrorist camps and freedom for such elements to roam freely on its territory, the coming days will show the extent to which the new US policy will be impacted by these constraints.

129. (5) The paragraph is all about the legality of crypto currencies, especially bitcoins. It states the reason why bitcoins are not trusted for actual transactions and the problems it may raise in the long run. There is a very clear clue given in the paragraph, "But this may change soon," which indicates that the sentence following it will be related to the same. Among the given options, only the sentence (e) gives the most logical attachment to its prior sentence. Other options are irrelevant in the context of the paragraph. Hence (e) is the correct choice.

130. (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 the US claims the right to use preventive force against what it considers to be 'credible' threats, it argues that others engaged in similar actions like India invading Pakistan, China invading Taiwan, or Russia invading Georgia would endanger international security.

131. (2) "introspect, institution, vindicate" is the correct set of words that fill perfectly into the blanks provided in the sentence. Hence (b) is the correct choice.
Introspect means examine one's own thoughts or feelings.
Vindicate means show or prove to be right, reasonable, or justified.
Contend means struggle to surmount (a difficulty).
Manifest means clear or obvious to the eye or mind.

132. (1) "indiscriminate, overzealous, eroding" is the correct set of words that fill perfectly into the blanks provided in the sentence. Hence (a) is the correct choice.
Indiscriminate means done at random or without careful judgment.
Overzealous means too zealous in one's attitude or behaviour.
Edgy means tense, nervous, or irritable.
Frivolous means not having any serious purpose or value.
Peevish means having or showing an irritable disposition.

133. (4) "massive, choking, earmarked" is the correct set of words that fill perfectly into the blanks provided in the sentence. Hence (d) is the correct choice.
Earmark means designate (funds or resources) for a particular purpose.
Tackle means make determined efforts to deal with (a problem or difficult task).
Shell out means to give.
Hefty means large and heavy.

134. (3) "fact, constrained, have" is the correct set of words that fill perfectly into the blanks provided in the sentence. Hence (c) is the correct choice.
Constrain means compel or force (someone) to follow a particular course of action.
Impel means drive, force, or urge (someone) to do something.
Inhibit means prevent or prohibit (someone) from doing something.

135. (5) "factor, cohesive, rivalries" is the correct set of words that fill perfectly into the blanks provided in the sentence. Hence (e) is the correct choice.
Cohesive means characterized by or causing cohesion.
Obstinate means stubbornly refusing to change one's opinion or chosen course of action, despite attempts to persuade one to do so.

Retentive means (of a substance) able to absorb and hold moisture.

Enmity means a state or feeling of active opposition or hostility.

136. (4) Sentences ebca form a coherent paragraph as it talks about the impact of demonetization and then GST on the economy that created crises in livelihoods, small manufacturing units and traders which are still to be recovered. Sentence (d) fails to connect with the other sentences as it tells about the people who are responsible for this and mentions the word 'clear' as no other sentences are pointing towards this conclusion. Hence option (d) is the correct choice.

137. (4) Sentences caeb a coherent paragraph whereas sentence (d) is not a part of the paragraph as it is about accomplishing the goal and making China as a leading developed nation. You will notice that the three phases which are being talked about in the sentence (c) are following a chronological order and are talking about different timelines. So while (d) can be a part of the paragraph but when it comes to coherence 'caeb' is the correct order.

138. (3) Sentences aedb form a coherent paragraph talking about criticism made by Cuba against U.S. move of not supporting them. Sentence (c) is about relaxing restriction during Obama's administration which is not making a connection with the other sentences. Hence option (c) is the right choice.

139. (1) Going through the sentences we find that sentences cebd form a coherent paragraph and are discussing about the emergency declared by Donald Trump against opioid abuse whereas sentence (a) is about threat from the drugs making it unrelated to the other sentences. Hence option (a) is the correct choice.

140. (3) Sentences daeb form a coherent paragraph and discusses about the sources from which the challenges in protected area will arise that are encroachment on western part, development pressures on eastern edges of the hills and sprouting of coconut plantations whereas sentence (c) talks about the recovery of forests making it unrelated to other sentences. Hence option (c) is the correct choice.

141. (4) Both the starters (I) and (III) can be used to connect the given set of two sentences to form a meaningful statement. However, the second starter is incorrect as it would alter the meaning of the actual sentence.
(I)Following President Putin's May 2012 decree ordering Russian bureaucrats to strive towards improving the country's Doing Business ranking from 120th to 20th by 2018, a "hundred-step" transition, Russia rose to the 51st place in 2015.
(III)As Russian bureaucrats followed the orders of President Putin's May 2012 decree to strive towards improving the country's Doing Business ranking from 120th to 20th by 2018, a "hundred-step" transition, Russia rose to the 51st place in 2015.

142. (1) The given paragraph is about the erosion of shareholder value due to Non-Performing Assets (NPA) and the failure of the defaulted company's management and board to promptly disclose the company's default to the exchange. Among the given options, there is only sentence (a) 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 (a) is the correct choice.

143. (2) The paragraph talks about the history of manufacturing sector in India that was becoming a major textile manufacturer during 1900s. It can be viewed in the sequence of "dace" which forms the coherent paragraph. Option (b) doesn't fit in this sequence as it refers to manufacturing output and employment to improve its competitiveness which has no connection with any other sentences. Hence option (b) is the correct choice of elimination.

144. (4) All the given sentences, except (II), are grammatically correct. In the sentence (II), there is a minor grammatical mistake, the verb "needed" should be replaced by "needs" as it is very clear that the sentence is in Present Tense and thus the verb should also be in the same form. Moreover, the subject is singular; the verb signifying the same should also be singular. Thus the correct verb "needs" will make the sentence grammatically correct. Hence (d) is the correct choice.

145. (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. Moreover, the statement cannot be interrogative as it indicates.
(I)Although central and state governments have taken certain sporadic initiatives, there has been no tangible systemic reform to really ease the process of Doing Business on a sustained basis.
(II)Despite certain sporadic initiatives taken by central and state governments, there has been no tangible systemic reform to really ease the process of Doing Business on a sustained basis.

146. (2) Refer the last sentence of the passage, "Where the emergent value cannot exert itself as the real and constant selective purpose of the man but is in conflict with the biological selective purpose and only inconstantly shows its supremacy from time to time, we have the picture of the ordinary struggling man." Hence (b) is the correct choice in the context of the passage.

147. (5) Refer the statement, "Here the biological tendencies are not destroyed but their potency, and indeed the potency of the whale life-history, converges towards the achievement of the self-emergent purpose, the value." Thus it does not become insignificant, rather it is directed towards fulfillment of values. Hence (e) is the correct choice.

148. (4) The phrase "resignation in an unknown number of past experiences" signifies that one is not discriminating while learning lessons from the past. Behaviour registers innumerable experiences of the past. Hence (d) is the correct choice in the context of the passage.

149. (5) Read the passage carefully, it can be inferred that the most suitable theme of the passage is "Value orientation gives precedence to mind over body." Hence option (e) is the correct choice.

150. (3) The word "Coalesce" means come together to form one mass or whole. The word "Affiliate" means officially join or become attached to an organization. Hence both are similar in meanings.
Sever means put an end to (a connection or relationship); break off.
Sunder means split apart.
Lacerate means criticize forcefully or severely.