

BANK OF BARODA PO GRAND TEST : 170501 - HINTS AND SOLUTIONS

ANSWERS

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

1-5. **Input** : 17 23 29 13 47 37 19 79

Step-1 : 79 23 29 13 47 37 19 17

Step-2 : 79 47 29 13 23 37 19 17

Step-3 : 79 47 37 13 23 29 19 17

Step-4 : 79 47 37 29 23 13 19 17

Step-5 : 79 47 37 29 23 19 13 17

Step-6 : 79 47 37 29 23 19 17 13

1. (5) **Step-1** : 97 47 23 79 27 11 19 31

Step-2 : 97 79 23 47 27 11 19 31

Step-3 : 97 79 47 23 27 11 19 31

Step-4 : 97 79 47 31 27 11 19 23

Step-5 : 97 79 47 31 27 23 19 11

Final step will be descending order.

2. (5) **Input** : 73 31 37 67 19 29 43 13

Step-1 : 73 67 37 31 19 29 43 13

Step-2 : 73 67 43 31 19 29 37 13

Step-3 : 73 67 43 37 19 29 31 13

Step-4 : 73 67 43 37 31 29 19 13

3. (4) Cannot be determined.

4. (4) **Step-3** : 79 61 53 41 19 11 43 13

Step-4 : 79 61 53 43 19 11 41 13

Step-5 : 79 61 53 43 41 11 19 13

5. (3) **Input** : 05 11 17 02 19 13 03 23

Final step will be in descending order.

Last step is - 23 19 17 13 11 05 03 02.

6. (2)

7. (1) When Kishore original marks will '90'. Interchange that marks = 9.

∴ Decrease '81' marks.

8. (3) Either (1) or (2).

9. (3) Either (1) or (2).

Them - Se

10. (5) (i)

↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
→										

Ranjan Nidhi

(ii)

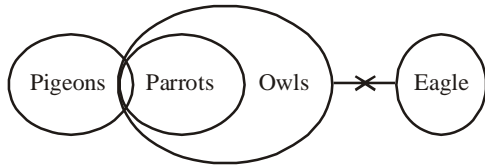
↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓

Ranjan

↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓

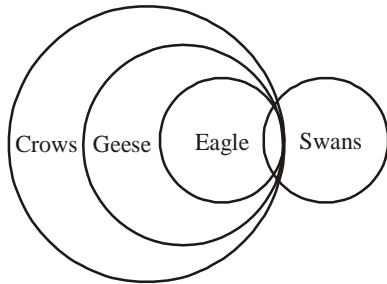
Nidhi

11. (1)



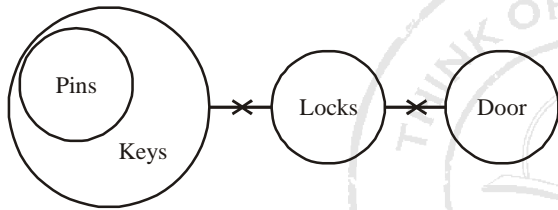
I. ✓ II. ✗
Only I follow.

12. (2)



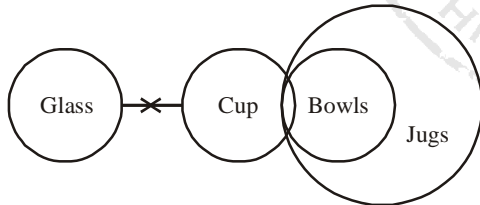
I. ✗ II. ✓
Only II follow.

13. (5)



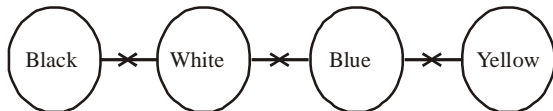
I. ✓ II. ✓
Both I and II follow.

14. (4)



I. ✗ II. ✗
Neither I nor II follows.

15. (2)



I. ✗ II. ✓
Only II follow.

16-20.

Day	Person	Subject	Year
Monday	Ashok	Philosophy	1989
Tuesday	Dharmendra	Hindi	1997
Wednesday	Ekta	Geology	1999
Thursday	Bablu	Biology	1991
Friday	Chandan	Psychology	1993
Saturday	Fool Babu	English	1995

- 16. (5)
- 18. (1)
- 20. (5)

- 17. (5)
- 19. (2)

21-24. Rajesh, Omprakash and Pratima are brothers and sister.
Couples :
Urmik = Rajesh
Tina = Omprakash
Pratima = Shailesh

- 21. (3)
- 22. (3) Tina is the wife of Omprakash, who is brother of Rajesh.
So, Tina is sister-in-law of Rajesh.
- 23. (1)
- 24. (3)
- 25. (2) $10 + 10 + Bablu + 20 + 20 = 61$ (Total students).

26-30. Boys = 67
Make = 62
We = 27
TRY = 56
to = 76
good = 52
For = 75/26
it = 75/26

- 26. (2)
- 28. (5)
- 30. (5)

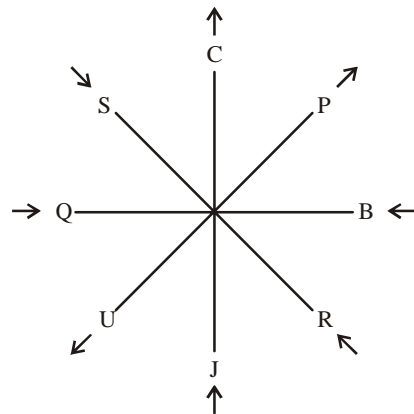
- 27. (3)
- 29. (1)

31-35. Monday - R
Tuesday - Q
Wednesday - T
Thursday - Holiday
Friday - Z
Saturday - S
Sunday - P

- 31. (2)
- 33. (1)
- 35. (1)
- 36. (4)
- 38. (3)
- 40. (2)
- 42. (2)
- 44. (5)

- 32. (5)
- 34. (1)
- 37. (4)
- 39. (5)
- 41. (4)
- 43. (5)
- 45. (5)

46-50.



46. (3) 47. (2)
 48. (1) 49. (1)
 50. (4)
 51. (5) Total number of buildings constructed across the state in the year 2000
 = 1500 + 1250 + 1480 + 1724 + 1020 + 1138 = 8112.
 Total number of buildings constructed across the state in the year 2006
 = 1700 + 1450 + 1634 + 1896 + 1190 + 1294 = 9164

$$\text{Required percentage} = \frac{8112}{9164} \times 100 = 88.45\% \cong 88\%$$

52. (1) Total no. of buildings constructed in the year 2003
 = 1636 + 1335 + 1550 + 1820 + 1115 + 1240 = 8696
 Total no. of buildings constructed in the year 2005
 = 1660 + 1400 + 1600 + 1880 + 1175 + 1280 = 8995
 Difference = 8995 - 8696 = 299.

53. (5) Total no. of buildings constructed across the state over the years is
 2000 - 8112
 2001 - 8354
 2002 - 8605
 2003 - 8696
 2004 - 8899
 2005 - 8995
 2006 - 9164
 All the years = 8112 + 8354 + 8605 + 8696 + 8899 + 8995 + 9164 = 60825.

54. (2) Town C in the year 2002 = 1545
 Town C in the year 2001 = 1500.
 Required percentage

$$= \frac{1545 - 1500}{1500} \times 100 = \frac{45}{1500} \times 100 = 3\%.$$

55. (5) Total no. of buildings constructed in town E is
 = 1020 + 1050 + 1100 + 1115 + 1160 + 1175 + 1190 = 7810.
 Total no. of buildings constructed in town F is
 = 1138 + 1190 + 1230 + 1240 + 1265 + 1280 + 1294 = 8637.
 Required Ratio = 7810 : 8637.

56. (5) From II, given the side of square is 56 cm.
 From I, we can find the area of square.
 Area of square is = $56 \times 56 = 3136$.
 Area of circle is double the area of square,
 $2\pi r = 6272 \Rightarrow \pi r = 3136$.
 We can find the 'r' value and also find the circumference of the circle.
 So, the answer is both (i) and (ii) is sufficient.

57. (1) From I,

$$\text{Geeta age} = \frac{1}{4} \text{ Sunita}$$

$$\text{Sunita age} = 6 \times (\text{6 year old daughter})$$

$$\text{Sunita age} = 36$$

$$\text{Geeta age} = \frac{1}{4} \times 36 = 9 \text{ years}$$

From II, Data inadequate.

So, answer is only I sufficient.

58. (3) From I,

$$\text{Given, } \frac{3}{4}x = 2767.5 \Rightarrow x = 3690$$

We can find 20% of $\frac{1}{6}$ th of the number.

From II,

Given difference between 35% and 25%.

i.e. 10% of no. is 369.

The no. is 3690.

We can find 20% of $\frac{1}{6}$ th of the number.

So, the answer is either (1) or (2) sufficient.

59. (2) From I,

We can find no data from I.

From II,

15% of Mr. Gupta monthly income is 3750.

We can find 100% of monthly income and also annual income.

So, answer is only II sufficient.

60. (4) From I & II,

We can find no data.

So, answer is neither (I) nor (II) sufficient.

Given data,

Total no. of students in the college = 19000

Art - 4750

Commerce - 6650

Science - 7600

Arts :

1140 - Social Work

1425 - Physical Training

1900 - Cookery

285 - All

Commerce :

2926 - Social Work

1862 - Physical Training

931 - Cookery

931 - All

Science :

2660 - Social Work

3268 - Physical Training

304 - Cookery

1368 - All.

61. (2) Required ratio = 665 : 760 = 7 : 8.

62. (5) Total no. of students taken social work and physical training from all three disciplines is
 = 1425 + 1140 + 2926 + 1862 + 2660 + 3268 = 13281.

63. (1) Social Work from Arts = 1140
 Social Work from Science = 2660

$$\text{Required Percentage} = \frac{1140}{2660} \times 100 = 42.8 \approx 43\%$$

64. (4) Total no. of students in the college, who have taken only cookery = $1900 + 931 + 304 = 3135$.

65. (3) Total no. of students taken all subjects from all disciplines = $285 + 931 + 1368 = 2576$.

$$\text{Required percentage} = \frac{2576}{19000} \times 100 = 13.5 \approx 13.6$$

66. (3) $\frac{73570}{731} \times 12.5 \approx 1258$

67. (3) $\sqrt[3]{74198} + (46.85)^2 = 42 + 2209 \approx 2256$

68. (4) $0.2\% \text{ of } 356 \times 0.8\% \text{ of } 779$
 $= 0.712 \times 6.232 = 4.42 \approx 4$.

69. (1) $\sqrt{11256} + \sqrt{2836} = 106 + 53 = 159$

70. (5) $\frac{2}{3} \times \frac{4}{5} \times \frac{1}{6} \times 2856 = 253.8 \approx 254$

71. (1) The probability of 3 balls that are exactly 2 are green

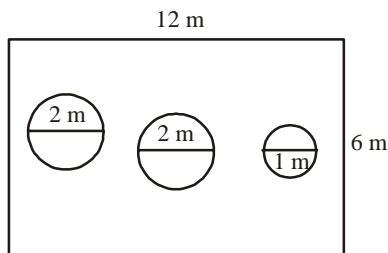
$$= \frac{{}^4C_2 \times {}^8C_1}{{}^{12}C_3} = \frac{\frac{4 \times 3}{2} \times \frac{8}{1}}{\frac{12 \times 11 \times 10}{3 \times 2 \times 1}} = \frac{6 \times 8}{22 \times 10} = \frac{12}{55}$$

72. (1)

73. (2)

74. (4)

75. (3) Given data breadth = 6m
 Height = 12 m
 Aperture diameters = 2m, 1m



$$\text{Area of circles} = \pi r^2 = \frac{22}{7} \times 1 \times 1 = \frac{22}{7}$$

$$\text{Area of circle} = \pi r^2 = \frac{22}{7} \times 0.5 \times 0.5 = \frac{5.5}{7}$$

$$\text{Area of rectangle} = l \times b = 12 \times 6 = 72 \text{ m}^2$$

Area of remaining portion

$$= 72 - \frac{22}{7} - \frac{5.5}{7} - \frac{22}{7} = \frac{504 - 49.5}{7} = 64.92 \text{ sq.m.}$$

76. (5) $\frac{120x}{125y} = \frac{3}{5} \Rightarrow \frac{24x}{25y} = \frac{3}{5} \Rightarrow \frac{x}{y} = \frac{5}{8}$

77. (1) Given data :

Speed of boat in still water = 6 kmph

Speed of stream = 1.5 kmph

Distance = 22.5 km

$$D = ST \Rightarrow T = \frac{D}{S} = \frac{22.5}{7.5} + \frac{22.5}{4.5} = 3 + 5 = 8 \text{ hrs.}$$

78. (5) Given : Up stream speed = 10 kmph

Down stream speed = 16 kmph

$$\text{Man speed} = \frac{10 + 16}{2} = \frac{26}{2} = 13 \text{ kmph}$$

79. (3) Given data :

Speed of 1st train = 90 kmph, time = 36 sec.

$D = ST$

$$(T.L. + B) = 90 \times \frac{5}{18} \times 36 = 900$$

2nd train speed = 45 kmph

$$(TL - 100 + B) = 45 \times \frac{5}{18} \times T \quad (\because TL + B = 900)$$

$$\Rightarrow (900 - 100) = \frac{25}{2} \times T \Rightarrow 800 = \frac{25}{2} \times T$$

$$\therefore T = 64 \text{ sec.}$$

80. (4)

81. (5) Total no. of passengers in Airline P

$$= 25 + 30 + 35 = 90$$

Total no. of passenger in Airline S

$$= 30 + 30 + 35 = 95$$

Required ratio = 90 : 95 = 18 : 19.

82. (5) Total no. of passengers in all three months :

$$P = 25 + 30 + 35 = 90$$

$$Q = 25 + 35 + 38 = 98$$

$$R = 40 + 28 + 22 = 90$$

$$S = 35 + 30 + 30 = 95$$

$$T = 37 + 30 + 16 = 83$$

So, least no. of passengers is '7'.

83. (2) No. of passengers in Airline R in December = 40

Other airlines in same month

$$= 30 + 37 + 30 + 35 = 132$$

$$\text{Required \%} = \frac{40}{132} \times 100 = 30\%$$

84. (1) Total no. of passengers by various airlines,

$$P = 90, Q = 98, R = 90, S = 95, T = 83 \text{ (all in 1000's)}$$

$$\Rightarrow \text{Required} = 90 + 98 + 90 + 95 + 83 = 456000.$$

85. (3) Total no. of passengers in November by all airlines

$$= 25 + 35 + 22 + 30 + 16 = 128 = \frac{128}{5}$$

Total no. of passengers in January by all airlines

$$= 35 + 25 + 28 + 30 + 38 = 156 = \frac{156}{5}$$

$$\text{Difference} = \frac{156}{5} - \frac{128}{5} = \frac{28}{5} = 5.6 \Rightarrow 5600$$

86. (4) The average daily wages of 450 workers is 45.

$$\text{Total wages} = 450 \times 45 = 20250.$$

Another factory average daily wages of 340 workers is 60.

$$\text{Total wages} = 340 \times 60 = 20400.$$

Average wages of all workers

$$= \frac{20250 + 20400}{790} = 51.42 \approx 51 \text{ Rs.}$$

87. (5) $\frac{400x}{250y} = \frac{3}{5} \Rightarrow \frac{x}{y} = \frac{3}{8}$

88. (3) RECOGNISE

Total no. of letters = 9

No. of arranging ways = 9!

$$\text{Total no. of arranging way} = \frac{9!}{2!} = 181440.$$

89. (2) $-\frac{6300 \times 14 \times 3}{100} + \frac{(6300 + x) \times 16 \times 3}{100} = 618$

$$\Rightarrow -264600 + 302400 + 48x = 61800$$

$$\Rightarrow 48x = 61800 - 37800 \Rightarrow 48x = 24000$$

$$\Rightarrow x = 500$$

$$\text{Total sum} = 6300 + 500 = 6800.$$

90. (1) Let 1000 gm CP = 100 Rs.

Weight 1000 gm = 850 gm

$$\text{Required \%} = \frac{1000 - 850}{850} \times 100 = \frac{150}{850} \times 100 = 17.64\%$$

$$\text{or } 17\frac{11}{17}\%$$

91. (2) Graduate male population in State A

$$= \frac{16}{100} \times 2400000 \times \frac{7}{12} = 224000$$

XII Std. male population in State A

$$= \frac{15}{100} \times 3200000 \times \frac{7}{116} = 210000$$

$$\text{Required difference} = 224000 - 210000 = 14000.$$

92. (3) Graduate female population of state C

$$= 2400000 \times \frac{15}{100} \times \frac{4}{9} = 160000$$

Std. XII female population of state C

$$= 3200000 \times \frac{18}{100} \times \frac{5}{9} = 320000$$

$$\text{Required \%} = \frac{160000}{320000} \times 100 = 50\%$$

93. (5) Graduate male population of state E

$$= 2400000 \times \frac{20}{100} \times \frac{9}{16} = 270000$$

St. XII female population of state E

$$= 3200000 \times \frac{19}{100} \times \frac{10}{19} = 320000$$

$$\text{Respective ratio} = 270000 : 320000 = 27 : 32.$$

94. (3) Graduate male population in State A

$$= 240000 \times \frac{16}{100} \times \frac{7}{12} = 224000$$

Graduate female population in state A

$$= 240000 \times \frac{16}{100} \times \frac{5}{12} = 160000$$

Std. XII male population in state A

$$= 3200000 \times \frac{15}{100} \times \frac{7}{16} = 210000$$

Std. XII female population in state A

$$= 3200000 \times \frac{15}{100} \times \frac{9}{16} = 270000$$

$$\text{Required ratio} = 224000 + 210000 : 160000 + 270000 = 434000 : 430000 = 217 : 215.$$

95. (3) Graduate population from state A is

$$2400000 \times \frac{16}{100} = 384000.$$

Std. XII total population in State A

$$= 3200000 \times \frac{15}{100} = 480000$$

$$\text{Difference} = 480000 - 384000 = 96000.$$

96. (4) $\sqrt[3]{7645373} = (197 \times 197 \times 197)^{1/3} = (197)^{3/3} = 197$

97. (2) $\frac{7}{254} \times 4572 + 1\frac{2}{5} = 7 \times 18 + 1\frac{2}{5} = 127\frac{2}{5}$

98. (1) $\frac{12 \times 12 \times 12 \times 6 \times 6 \times 6 \times 6}{432} = 5184$

99. (3) $256 \times 0.5 = \frac{1024}{x} \times 4 \Rightarrow x = \frac{1024 \times 4}{256 \times 0.5} = 32$

100. (5) $\frac{0.9}{100} \times 450 \times \frac{3.5}{100} \times x = 39.69 \Rightarrow x = 280.$