RBI ASSISTANT (PRE) MEMORY BASED PAPER - 2

1.(B) 'Go' is incorrectly used.

The correct from will

Be 'goes'

2. (B) 'Are' is incorrect

'are' should be replaced by 'is'

Each (shoe and sock) are treated as

one at a time.

3. (C) 'are' is incorrect

It should be 'is'

Every makes the subject of the

sentence singular

4. (E) No error

5. (B) army is in correct

It should be replaced

By two armies.

31. (C) $(71 \times 29 + 27 \times 15 + 8 \times 4)$

$= 2059 + 405 + 32$

$= 2496$

32. (E) $3\sqrt{x} = (36 \times 24) \div 9$

$3\sqrt{x} = 96$

$x = (32)^2$

$= 1024$

33. (C) $(41.45)^2 - \sqrt{361} = x$

$1718.1025 - 19 = x$

$x = 1699.1025$

34. (C) $\sqrt{5625} \times \dfrac{1}{5} + (4.5)^2 = ?$

$75 \times \dfrac{1}{5} + 20.25 = ?$

$? = 35.25$

35. (C) $= \sqrt{876} \times 20.6 + 165.34$

$\cong 29 \times 21 + 166$

$\cong 609 + 166 = 775$

36. (A) $x = \sqrt{956240}$

$\cong x = \sqrt{956200}$

$x \cong 10 \times \sqrt{9562}$

$x \cong 10 \times 98 = 980$

$x \cong 979$

37. (E) 73% of 650 –111% of 240

$\dfrac{73}{100} \times 650 - \dfrac{111}{100} \times 240$

$\Rightarrow 73 \times 65 - 111 \times 2.4$

$= 474.5 - 266.4$

$= 208.1$

38. (A) $\dfrac{4.41 \times 0.16}{2.1 \times 1.6 \times 0.21}$

$= \dfrac{4.41}{(2.1)^2} \Rightarrow \dfrac{4.41}{4.41}$

$= 1$

39. (E) $\Rightarrow \dfrac{1}{0.02}$

$\Rightarrow \dfrac{100}{2}$

$\Rightarrow 50$

40. (D) $= 32 \times 15 - \dfrac{1850}{37}$

$= 480 - 50$

$= 430$

41. (B) $(500 + 200) \times 4 \times (3 + 2) = x \times 2$

$$\frac{700 \times 4 \times 5}{2} = x$$

$x = 7000$

42. (E) $\Rightarrow 24 + 13 - 5 \times 7 \text{ of } 5 - \{45 \div (17 - 2)\}$

$\Rightarrow 24 + 13 - 175 - 3$

$\Rightarrow -141$

43. (D) $\dfrac{(98360 + 25845 - 36540)}{2500}$

$\Rightarrow \dfrac{87665}{2500}$

$\Rightarrow 35.066$

44. (B) $\dfrac{5978}{48} \times 11$

124.5×11

$\cong 1370$

45. (E) $(9.95)^2 \times (2.01)^3 = 2 \times (x)^2$

$\cong (10)^2 \times 2^3 = 2 \times x^2$

$100 \times 4 = x^2$

$x = 20$

46. (A) Going By the options

Answer A is correct

$\therefore \dfrac{40 - 35}{35} \times 100 \cong 14.29\%$

47. (B) total import of the three

Years 2006, 2007, 2009

$= 55 + 35 + 60 \Rightarrow 150$

Total export $= 45 + 40 + 50 = 135$

$\% = \dfrac{150}{135} \times 100 = 111.11\%$

48.(E)

year	Total import	total export
04 - 05	65	80
06 - 07	90	85
07 - 08	90	100
09 - 10	105	120

$\therefore$ hence in no two years

Export is equal to import

49. (C) Required ratio

$= 315 : 345$

$= 21 : 23$

50. (A)

year	%
2004	87.5%
2005	75%
2006	122.22%
2007	87.5%
2008	91.66%
2009	120%
2010	64.28%

$\therefore$ Hence in 2005

51. (A) $(10)/1 = 10$

$(10 + 20)/2 = 15$

$(30 + 30)/2^2 = 15$

$(60 + 40)/2^3 = 12.5$

$(100 + 50)/2^4 = 9.375$

$(150 + 60)/2^5 = 6.5625$

Next term

$(210 + 70)/2^6 = 4.375$

52. (B) $12 \times 1 = 12$

$12 \times 1 + 2 = 14$

$14 \times 2 + 4 = 32$

$32 \times 3 + 6 = 102$

$102 \times 4 + 8 = 416$

$416 \times 5 + 10 = 2090$

$2090 \times 6 + 12 = 12552$
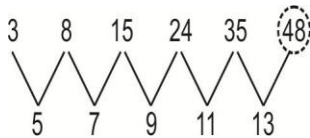
53. (C) $3/1 = 3$

$24/3 = 8$

$360/24 = 15$

$8640/360 = 24$

$302400/8600 = 35$

From above

$x/302400 = 48$

$x = 14515200$

54. (D) $5938 - 5913 = 25 = 5^2$

$5913 - 5877 = 36 = 6^2$

$5877 - 5828 = 49 = 7^2$

$\therefore ? - 5938 = 4^2$

$x = 5954$

55. (E) $655 - 439 = 216 = 6^3$

$439 - 314 = 125 = 5^3$

$314 - 250 = 64 = 4^3$

$250 - 223 = 27 = 3^3$

$223 - x = 8 = 2^3$

$x = 215$

56. (D) Case 1 → 3 men 0 women

No of ways = no of ways

choosing 3 men out of 5

$^5C_3 = 10$

Case 2 → 2 men 1 women

$\Rightarrow {}^5C_2 \times {}^3C_1 \Rightarrow 10 \times 3 = 30$

Total ways $= 10 + 30 \Rightarrow 40$

57. (A) Let present age of Anand be x & his brother be y

two years ago

$\dfrac{x-2}{y-2} = \dfrac{5}{9}$

$9x - 5y = 8$ ….(1)

Two years later,

$\dfrac{x+2}{y+2} = \dfrac{7}{11}$

$11x - 7y = -8$ …(2)

From eq 1 and

$x = 12$ years

58. (C) Let sum of money lent = a

SI = 2a

$\therefore$ Rate = y%

$2a = \dfrac{a \times 25 \times y}{100}$

$y = 8\%$

59. (B) let original cost be Rs. 100

Profit = Rs. 10

$\therefore$ SP = Rs. 110

If SP is doubled *i.e.* Rs. 220

Profit amount $= 220 - 100$

$= 120$

Profit % = $\dfrac{120}{100} \times 100 \Rightarrow 120\%$

60. (B) Let's say the amount of water be x litres

Total amount of milk and water = $(x + 25)$

SP of water per litres = Rs. 3

$\therefore$ total SP = $(x + 25) \times 3$ ...(i)

Amount of pure milk = $25l$

SP of pure milk per lit = Rs. 3.60

Total SP = 25×3.60 ...(ii)

From eq (i) & (ii)

$x = 5$ litre

61. (D) Let all pipes together can fill tank in T minutes to quarter of its capacity

$\Rightarrow \dfrac{T}{40} + \dfrac{T}{24} = \dfrac{1}{4}$

$\dfrac{T}{15} = \dfrac{1}{4} \Rightarrow$ 3 min 45 sec

62. (C) Let average weight of 12 persons be x

Total weight of 12 persons

= $12x$

If a person with 48 kg weight is replaced by a new max of y kg of weight.

Average weight increases by 1.5 kg

Then,

$12x - 48 + y = 12(x + 1.5)$

$Y = 66$ kg.

63. (B) Perimeter = 196m

$4S = 196$

S = 49m

Radius of circle = r = side of sq with perimeter 196 m = 49m

Area of circle = $\pi r^2 = \pi \times 49^2$

$\Rightarrow$ 7546 sq m.

64. (D) let the price of table be 25m

The price of chair will be 6m

$25m - 6m = 950$

$19m = 950$

$M = 50$

Hence CP of 2 chairs

$\Rightarrow 2m \times 50 = 12 \times 50$

Rs. 600

65. (C) Speed of boat upstream

$= \dfrac{56 km}{1 hr\, 45\min} = 32$ km/hr

Man's rate

$= \dfrac{\{(\text{rate in upstream + rate in down strem})\}}{2}$

$36 = \dfrac{32 + \dfrac{56}{x}}{2} \Rightarrow 1\dfrac{4}{10}$ hrs

1 hour 24 minutes

66. (D) only 1st rule applies

$\therefore$ code will be TZHULA

67. (E) only 3rd rule applies

i.e., fourth element is even number and last element is an odd number

$\therefore$ code will be KRTWAQ

68. (B) No rule applies

$\therefore$ code will be YNJTFR

.

69. (A) only 1st rule applies

Code will be BAUZYK

70. (E) only 2nd rule applies

∴ code will be HNLHKT

71. (D) $F \geq H > B \leq A = C < D > E$

Hence Neither is true

72. (C) on combining

$V \leq W < X = Y > P > Q \geq R$;

$U < Y = S \leq T$

Hence only conclusion II and III follow

73. (D) on combining

$2 < 5 > 7 = 9 < 4$
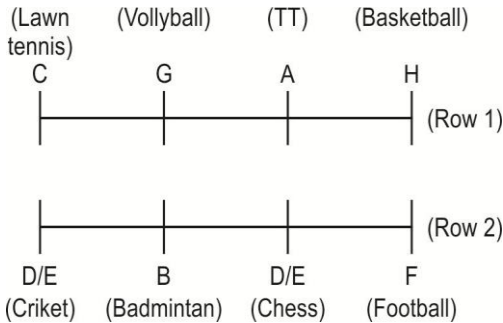
Only II and III are true

74. (A) $M \geq E > J \geq I < L \leq C < D$

$K \geq H < F \geq K \geq B \geq A \geq G$

∴ only conclusion I is true

75-79:-

(Lawn tennis)	(Vollyball)	(TT)	(Basketball)
C	G	A	H

(Row 1)

(Row 2)

D/E	B	D/E	F
(Criket)	(Badmintan)	(Chess)	(Football)

75. (E)

76. (D)

77. (B)

78. (A)

79. (B)

80-82:-

Monday	6	O
Tuesday	4	P
Wednesday	12	R
Thursday	18	N
Friday	27	Q
Saturday	15	M
Sunday	9	L

80. (E)

81. (A)

82. (B)

83. (C)

Circle, Square, Cube, Cylinder, Triangle

84. (D)

Boxes, Bottles, Mugs, Bags, Caps

85. (D)
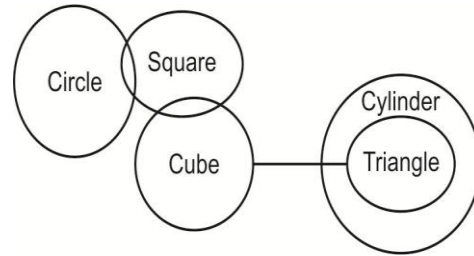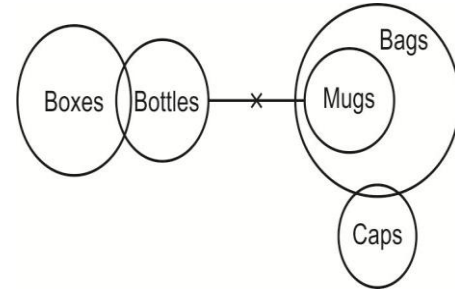
Stones, Cups, Black, Green, Red
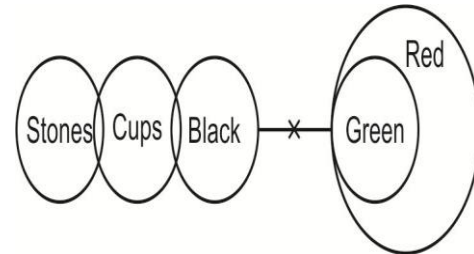
86-90:-

86. (B)
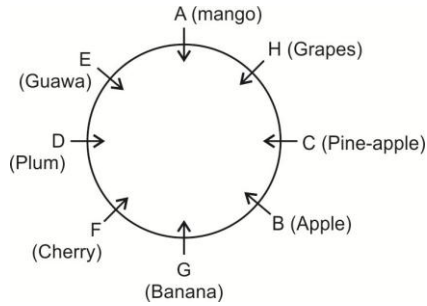
87. (C)

88. (A)

89. (E)

90. (C)

91. (C) 2nd highest no – 671

2nd lowest no – 272

Difference = 671 – 272

$\Rightarrow$ 399

92. (B) Arranging digit in ascending order

568 269 468 167 227

Hence 269

93. (E) Arranging the digits

568 629 486 761 722

Second highest – 722

Hence 272

94. (D) Increasing the 1st and 2nd digits of number and decreasing 3rd digit of number by 1

767 378 955 780 381 second lowest no $\rightarrow$ 381

Sum of digits = 3 + 8 + 1 = 12

95. (C) Arranging the number

846 671 658 272 269

4th no from right end $\rightarrow$ 2nd digit of 671

1st no from left $\rightarrow$ 846

3rd digit $\rightarrow$ 6

Difference 7 – 6 = 1

96. (A)

Only one such pair AB

97. (A)
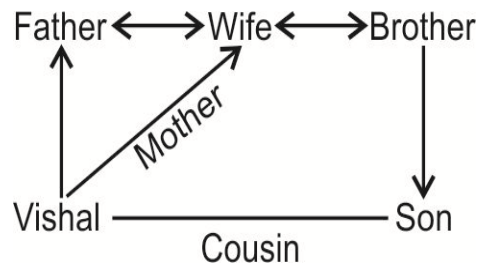
98. (B) YARE $\rightarrow$ moving lightly and easily

YEAR $\rightarrow$ time taken by earth to make one revolution

99. (D)

100. (B)

RBI ASSISTANT (PRE) MEMORY BASED PAPER - 2

ANSWER KEY

1(B)	2(B)	3(C)	4(E)	5(B)	6(D)	7(A)	8(B)	9(B)	10(C)
11(A)	12(C)	13(D)	14(C)	15(B)	16(C)	17(A)	18(D)	19(B)	20(E)
21(B)	22(A)	23(D)	24(D)	25(A)	26(B)	27(D)	28(A)	29(A)	30(D)
31(C)	32(E)	33(C)	34(C)	35(C)	36(A)	37(E)	38(A)	39(E)	40(D)
41(B)	42(E)	43(D)	44(B)	45(E)	46(A)	47(B)	48(E)	49(C)	50(A)
51(A)	52(B)	53(C)	54(D)	55(E)	56(D)	57(A)	58(C)	59(B)	60(B)
61(D)	62(C)	63(B)	64(D)	65(C)	66(D)	67(E)	68(B)	69(A)	70(E)
71(D)	72(C)	73(D)	74(A)	75(E)	76(D)	77(B)	78(A)	79(B)	80(E)
81(A)	82(B)	83(C)	84(D)	85(D)	86(B)	87(C)	88(A)	89(E)	90(C)
91(C)	92(B)	93(E)	94(D)	95(C)	96(A)	97(A)	98(B)	99(D)	100(B)