RBI ASSISTANT (PRE) MEMORY BASED PAPER-1

1. (D) → The correct usage is 'will have left'
In place of 'has left'

2. (E) → The sentence is correct

3. (B) → Replace 'in as been with
'shall have been'

4. (D) → Replace 'who it'
In place of 'whom it'

5. (B) → Replace 'since'
With 'for'

31. (C) $\frac{41472}{8} = 5184$

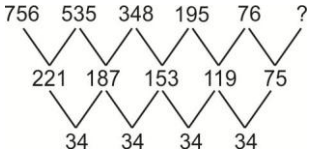
$\frac{5184}{9} = 576$

$\frac{576}{8} = 72$

$\frac{72}{9} = 8$

$\frac{8}{8} = 1$

32. (E)



= 1

33. (E) $\frac{70000}{5} = 14000$

$\frac{14000}{5} = 2800$

$\frac{2800}{5} = 560$

$\frac{560}{5} = 112$

$\frac{112}{5} = 22.4$

34. (D) $1 \Rightarrow 6$

$2 \Rightarrow 26$

$3 \Rightarrow 326$

$4 \Rightarrow 4326$

$5 \Rightarrow 54326$

$6 \Rightarrow 654326$

35. (C) $1 + 3 \times 1 = 4$

$4 + 3 \times 2 = 10$

$10 + (3 \times 2) \times 2 = 22$

$22 + (3 \times 2 \times 2) \times 2 = 46$

$46 + (3 \times 2 \times 2 \times 2) \times 2 = 94$

36. (E) $\frac{475800}{793} + 1620 - x = 1065 + 713$

$600 + 1620 - x = 1778$

$2220 - x = 1778$

$x = 442$

37. (D) $\frac{6156}{\sqrt{x}} \times 53 = 4028$

$\frac{6156}{4028} \times 53 = \sqrt{x}$

$\sqrt{x} = 81$

$x = 6561$

38. (E) $2\frac{1}{2}$ of $7\frac{1}{3}\%$ of 870

$= \frac{5}{2} \times \frac{22}{3 \times 100} \times 870$

$= 159.5$

39. (A) $x = \sqrt{1.96} - \sqrt{0.04}$

$= 1.4 - 0.2$

$= 1.20$

40. (D) $= (243)^{0.16} \times (243)^{0.04}$

$= (243)^{0.20}$

$(243)^{\frac{20}{100}} \Rightarrow (243)^{\frac{1}{5}}$

$= \left(3^5\right)^{\frac{1}{5}} \Rightarrow 3$

41. (B) $10\ \frac{1}{2} \div 2\ \frac{2}{9} \times 20\%$ of $(10 + 6 + 5)$

$\Rightarrow \frac{\frac{21}{2}}{\frac{20}{9}} \times 8$

$= 37\ \frac{4}{5}$

42. (A) $= 6$ of $\left\{\frac{1}{3} + 4\frac{5}{6} - \left(4\frac{2}{3} - 5\frac{1}{3}\right)\right\}$

$= 6 \times \left\{\frac{1}{3} + \frac{6\times4+5}{6} - \left(\frac{3\times4+2}{3} - \frac{3\times5+1}{3}\right)\right\}$

$= 6 \times \left\{\frac{1}{3} + \frac{29}{6} - \left(\frac{14}{3} - \frac{16}{3}\right)\right\}$

$= 35$

43. (B) $\left(5\frac{1}{3} - 3\frac{2}{3} - 5\frac{10}{11}\right) \div 2\ \frac{2}{33}$

$= \left(\frac{16}{3} - \frac{11}{3} - \frac{65}{11}\right) \div 2\ \frac{2}{33}$

$= -\frac{140}{33} \div \frac{68}{33}$

$= -2\ \frac{1}{17}$

44. (A) $3463 \times 295 - 16511 = ? + 7983$

$1021585 - 16511 = ? + 7983$

$\Rightarrow 99\ 7091$

45. (B) 85% of $\frac{4}{7}$ of $6755 = ? + 1678$

$\frac{85}{100} \times \frac{4}{7} \times 6755 = ? + 1678$

$3281 = ? + 1678$

$= 1603$

46. (B) $\sqrt{11449} \times \sqrt{6241} - (51)^2 = 0.94 \times ?^2 + 74^2$

$107 \times 79 - 2601 = 0.94 \times ?^2 + 74^2$

$5852 = 0.94 \times ?^2 + 5476$

$0.94 \times ?^2 = 376$

$?^2 = 400$

$? = 20$

47. (E) $\sqrt{15^2 \times 36 \div (27) - 129 + 25}$

$\Rightarrow \sqrt{225 \times \frac{36}{27} - 104}$

$\Rightarrow \sqrt{196}$

$\Rightarrow 14$

48. (A) $\sqrt{11256} + \sqrt{2836}$

$\Rightarrow 106 + 53$

$\Rightarrow 159$

49. (B) 225 % of 605 + 4/5 of 218 – 3/5 of 200 = ?

$\frac{225}{100} \times 605 + \frac{4}{5} \times 218 - \frac{3}{5} \times 200$

$\Rightarrow 1361.25 + 174.4 - 120$

$= 1415.65$

$\cong 1416$

50. (E) $(196.1)^3 \times (4.01)^3 \times (4.999)^2$

$= (196.1)^3 \times 4^2 \times ?$

Approx values

$? = \frac{(196)^3 \times 4^3 \times (5)^2}{(196)^3 \times 4^2}$

$? = 4 \times 25$

$= 100$

51. (E) Students taking commerce in B = 25

Students taking commerce in A = 40

Students taking commerce in C = 17.5

Total = 25 + 40 + 17.5 = 57.5

Required students = 57.5 – 25

= 32.5

52. (E) No of students taking Science in college B = 45 (in thousands)

Total no. of students in college B = 120

Required percentage = $\frac{45}{120}\times 100$

= 37.5 %

53. (B) Students taking Arts

A	B	C	D	E	F	Total
22.5	50	40	35	50	40	237.5

54. (D) No of students taken commerce

In college E = 37.5

No of students taking Science

In college E = 27.5

Ratio = 37.5 : 27.5

= 15 : 11

55. (E)

College	A	B	C	D	E	F	Total
No of students taking commerce	40	25	17.5	35	37.5	30	185

Total colleges = 6

Required average = $\frac{185}{6}$ = 30.83

56. (E) Total no. of people = 9

Total no. of people to be selected

= 3

Ways of selecting = ${}^{9}C_{3}$

Ways of selecting for females = ${}^{5}C_{3}$

Probability = $\frac{{}^{5}C_{3}}{{}^{9}C_{3}} = \frac{5}{42}$

57. (B) From statement I

Their LCM is a three digit no,

Knowing that LCM has three

Digits, HCF cannot be found

From statement II

P and Q are consecutive we know that consecutive number are always relatively prime. Hence their HCF will be 1.

58. (B) Let the required distance = x

Difference of time = 6 + 6 =12 min

= $\frac{1}{5}$ hr

According to question

$$\frac{x}{\frac{5}{2}} - \frac{x}{\frac{7}{2}} = \frac{1}{5}$$

x = $\frac{7}{4}$ km

59. (B) CP of 1 kg rice = Rs. 10

CP of 800 gm rice = Rs. 8

Now, he puts price tag to

Earn a profit of 50%

∴ MP of 1 kg rice = 10 + (50% of 10)

= Rs. 15

But he sells only 800 gm

Rice at the price of 1 kg rice

∴ SP of 800 gm rice

= Rs. 15

% profit = $\frac{SP - CP}{CP}\times 100$

= $\frac{15-8}{8}\times 100$

% profit = 87.5

60 (B) Let the amount lent at 5% be Rs. x

Money lent at 3% = Rs (4000 – x)

SI on Rs. x = $\left(\frac{P \times R \times T}{100}\right)$

= $\frac{x \times 4 \times 5}{100}$ = Rs. $\frac{x}{5}$

Total interest = Rs. 640

Interest on Rs. (4000 – x)

= Rs. $\left(640 - \frac{x}{5}\right)$

$\frac{(4000-x) \times 4 \times 3}{100} = 640 - \frac{x}{5}$

2x = 4000

x = 2000

∴ Money lent at 5% is Rs. 2000

61. (D) Let Rain in 2nd week = x

total rain in rest 3 week = x

total rain = 2x

Average rain fall = $\frac{\text{total rain fall}}{\text{no of weeks}}$

10 = $\frac{2x}{4}$

x = 20cm

62. (D) ratio of 'A's and B's salary

= 9 : 4

A's salary increased by 15%, it

Becomes = 5175

$9x\left(1+\frac{15}{100}\right) = 5175$

9x = 4500

A's Salary 4500

x = $\frac{4500}{9}$ = 500

B's Salary = 4x

= 4 × 500

= 2000

A's Salary = 4500

B's Salary = 2000

63. (D) No of days for which 150 men

Worked = 150 × 50 = 7500

No of men required to finish entire

Work = 150 × 50 × 4 = 30000

Out of that, the work equivalent to 7500 man days has already been finished

Work left = 30000 – 7500

= 22500

Contractor did only $\frac{1}{4}$th of work in 50 days.

Remaining work will be required to

Be finished in remaining 100 days

By using man power

No of total men required = $\frac{22500}{100}$

= 225

No of extra men required = 225 – 150

= 75

64. (B) Area of square = $(\text{side})^2$

Diagonal of square = $\sqrt{2}$ side

Area of square drawn on diagonals

= $\sqrt{2}$ side × $\sqrt{2}$ side = 2 side^2

Ratio of areas = $\frac{(\text{side})^2}{(2 \times \text{side})^2}$ = 1 : 2

65. (A) Let the difference of years

Be x

Radha is 40 yrs old and Ritika

Is 60 yrs old

Present ratio = 40 : 60

x years ago ratio would be

$40 - x : 60 - x$

According to question $\frac{40-x}{60-x} = \frac{3}{5}$

$200 - 5x = 180 - 3x$

$2x = 20$

$x = 10$

66. (D) Required Pattern = Consonant - Symbol

Here, there are 3 consonants followed by a symbol i.e F, j and S.

Therefore, Answer is three

67. (E) Here, it follows a pattern of writing characters as 1st character and then 2nd character by adding + 1 and then 3rd character after adding +2 to the 2nd character Hence HBU does not follow.

68. (B) Required Pattern

= consonant – vowels - Consonant

∴ only 1 rowel (TAJ)

Will be followed and Preceded by consonants.

69. (A) B28

70. (A) F and A

71. (A) Conclusion :

(i) $P < Q \rightarrow$ True as $Q \geq S > T = O > P$

Thus $Q > P$

(ii) $Y < s \rightarrow$ False as $Y < U \leq Q \geq S$

Thus there is no definite relation b/w them

72. (B) $Q > W$ as $W > D = Q \rightarrow W > Q$ (False)

$E > Q$ as $E \geq W > D = Q \rightarrow$

$E > D = Q \rightarrow$

$E > Q$ (true)

73. (A) $D > E$ as $(D > A \geq M \geq E)$ (true)

$N \leq A$ as $A \geq M$ and $M \leq N$

(No relation)

$A \geq L$ as $A \geq M \geq E < L$

(No relation)

74. (D) (i) $W > Z$ as $Z < Y < W$ true

(ii) $V < W$ as $V \leq Y < W$ true

(iii) $Z < Y$ as $Z < X$ and $X = Y$ true

(iv) $Z \leq V$ as $Z < Y$ and $V \leq Y$

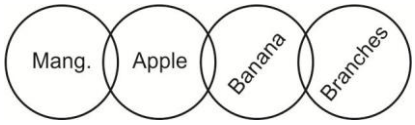
No relation

75. (C) All are false

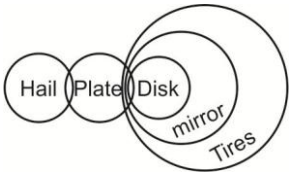
Conclusion I and II from a complementary Pair

∴ either conclusion I or II follows

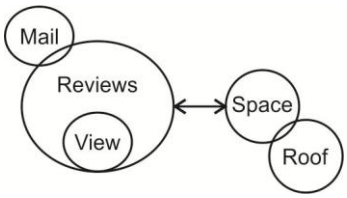
76. (A)



77. (D)

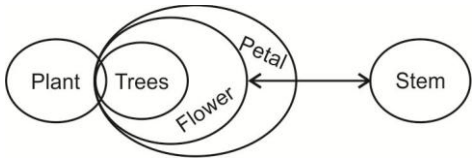


78. (A)

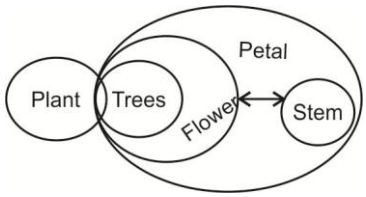


79. (D) Possible diagram

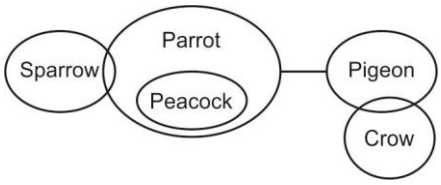
I



II



80. (D)



81-85

Person	Colour	Games
P	Violet	TT
Q	Red	Volleyball
R	Blue	Cricket
S	Brown	Chess
T	Black	Carom
V	Pink	Hockey
W	White	Football
X	Yellow	Lawn tennis

81. (B)

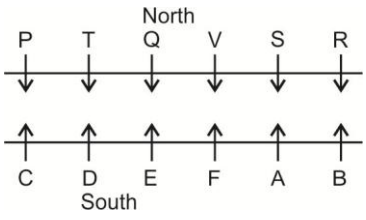
82. (C)

83. (A)

84. (E)

85. (D)

86-90



86. (B)

87. (E)

88. (B)

89. (E)

90. (C)

91. (A) After inter changing

INP ADS EGT ABR WEO

Arranging as per dictionary

ABR, ADS, EGT, INP, WEO

Hence third word is EGT *i.e.* GET

92. (E) After inter changing, changing and arranging order is

BBR, BDS, FGT, JNP, WEO

Hence second last word is JNP i.e. NIP

93. (E) After changing the second letter NJP, DBS, GFT, BBR, EXO

Hence, 4 words have all consonants in them.

94. (F) After changing the third letter:

NIQ, DAT, GEU, BAS, EWP

After reversing :

QIN, TAD, UEG, SAB, PWE

Hence No word is same

95. (E) After arranging :

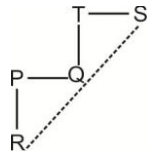
INP, ADS, EGT, ABR, EOW

Hence, all words get

Changed if all letters is

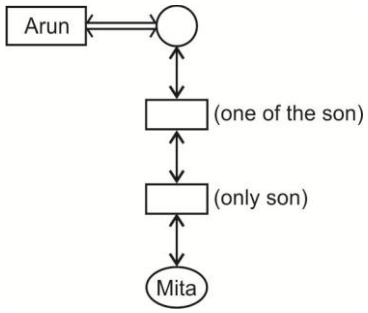
Each of the words are arranged alphabetically

96. (C)



R is in south – west of S

97. (D)



98. (D) ST, OT, OS, BE, EK

Hence 5 pairs

99. (B) Only II and III are required

100. (A) Only I & II are required.

RBI ASSISTANT (PRE) MEMORY BASED PAPER - 1

ANSWER KEY

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