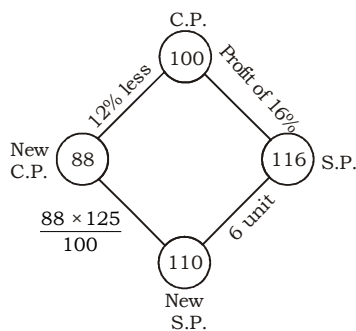


RPF MOCK TEST – 4 (SOLUTION)

51. (B) A.T.Q.,
Required percentage
$$= \frac{\frac{1200 \times 30}{100} + \frac{900 \times 40}{100}}{2100} \times 100$$

$$= 34.28\%$$
52. (C) Zinc : Alloy
16 : 100
4 : 25
↓ $\times 21$ ↓ $\times 21$
84 : 525
 \therefore Required amount of alloy = 525 kg.
53. (C) A.T.Q.,
Minimum cost price = ₹ 200
Maximum selling price = ₹ 500
 \therefore Maximum profit on 1 book = ₹ 300
 \therefore Required profit = $3000 \times 20 = ₹ 6000$
54. (A) A.T.Q.,



$\therefore 6 \text{ units} = ₹ 3.6$
 $100 \text{ units} = \frac{3.6}{6} \times 100 = ₹ 60$
 \therefore Required selling price
$$= \frac{60 \times 130}{100} = ₹ 78$$

55. (A) Let selling price = ₹ 100
Cost price = $\frac{100 \times 125}{100} = ₹ 125$
 \therefore Actual loss = $\frac{25}{125} \times 100 = 20\%$

56. (B) Two successive discounts
$$= 34 + 6 - \frac{34 \times 6}{100}$$

$$= 40 - 2.04$$

Required difference = $(40 - 40 + 2.04)\%$
$$= \frac{127500 \times 204}{100 \times 100}$$

$$= ₹ 2601$$

57. (D) Let amount = 100
Total interest
$$= \frac{\sqrt{7} - \sqrt{3}}{\sqrt{32 - (10 - 2\sqrt{21})} - \sqrt{21}} = 17.9$$

 \therefore Required rate = $\frac{17.9 \times 100}{100} = 17.9\%$
58. (B) Simple interest on ₹ 18000
$$= \frac{18000 \times 5 \times 16}{100 \times 4} = ₹ 3600$$

 \therefore Required amount = ₹ 24000 + ₹ 3600 = ₹ 27600
59. (D) A.T.Q.,
Principle Amount
 $\sqrt[3]{1}$ $\sqrt[3]{64}$
1 4
 \therefore Required rate = $\frac{4-1}{1} \times 100 = 300\%$

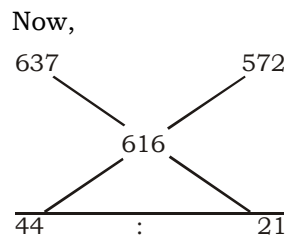
60. (C)
- | | Water | Sugar | Salt | Milk |
|----------------|-------|-------|------|-------------------|
| First mixture | 4 | 3 | 2 | = 9 ₄ |
| Second mixture | 6 | 5 | 1 | = 12 ₃ |
- \therefore Required amount = $\frac{3}{72} = \frac{1}{24}$

61. (D) Let the number = x
A.T.Q.,
$$\frac{6+x}{7+x} = \frac{15+x}{17+x}$$

$$\Rightarrow 102 + 17x + 6x + x^2 = 105 + 15x + 7x + x^2$$

$$\Rightarrow x = 3$$

62. (B) Ist mixture 7 : 4 = 11 × 91
IInd mixture 4 : 3 = 7 × 143
IIIrd mixture 8 : 5 = 13 × 77
Ist mixture 637 364
IInd mixture 572 419
IIIrd mixture 616 385



63. (C) A.T.Q.,
$$(2M + 1W) \times 16 = (2M + 4W) \times 9$$

$$\Rightarrow 32M + 16W = 18M + 36W$$

$$\Rightarrow 14M = 20W$$

$$\Rightarrow 7M = 10W$$

Now, 7 man will get = $7 \times 400 = ₹ 2800$

$$\Rightarrow \sqrt{x} = \frac{1}{\sqrt{2}} (\sqrt{7} - \sqrt{3})$$

Now,

$$\frac{\sqrt{x}}{\sqrt{32-2x-\sqrt{21}}} = \frac{1}{\sqrt{2}} \times \frac{\sqrt{7}-\sqrt{3}}{\sqrt{32-(10-2\sqrt{21})-\sqrt{21}}}$$

$$= \frac{\sqrt{7}-\sqrt{3}}{\sqrt{2}(\sqrt{22+2\sqrt{21}}-\sqrt{21})}$$

$$= \frac{\sqrt{7}-\sqrt{3}}{\sqrt{2}(\sqrt{(\sqrt{21}+1)^2}-\sqrt{21})}$$

$$= \frac{\sqrt{7}-\sqrt{3}}{\sqrt{2}(\sqrt{21}+1-\sqrt{21})}$$

$$= \frac{\sqrt{7}-\sqrt{3}}{\sqrt{2}}$$

76. (C) Required average = $\frac{34 \times 6 - 9}{5} = 39$ years.

77. (D) Required average
= $\frac{2.2 + 0.02 + 0.201 + 0.002 + 0.22}{5}$

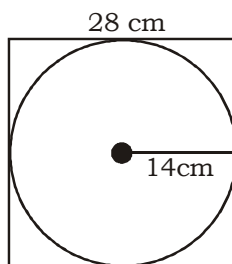
$$= \frac{2.643}{5} = 0.5286$$

78. (A) Let total profit = x
 $\frac{25(x-9000)}{100} = 9000$

$$\Rightarrow x = 36000 + 9000$$

$$\Rightarrow x = 45000$$

79. (D) A.T.Q.



$$\therefore \text{Required area} = (28)^2 - \pi (14)^2 = 784 - 616 = 168 \text{ cm}^2$$

80. (A) A.T.Q.,

$$\sqrt{37^2 - 35^2} = \sqrt{144} = 12$$

Hence, this is right angled triangle.

$$\text{Area of the triangle} = \frac{1}{2} \times 37 \times 35 \text{ cm}^2$$

Area of another triangle

$$= 2 \times \frac{1}{2} \times 35 \times 37 \text{ cm}^2$$

$$\text{Now, } 35 \times 37 = \frac{1}{2} \times h \times 42$$

$$\Rightarrow h = 61.67$$

\therefore Height of triangle = 61.67 cm

81. (B) ATQ,
Required number

$$= 1800 \times \frac{20}{100} \times \frac{3}{5} - 1800 \times \frac{12}{100} \times \frac{5}{12}$$

$$= 216 - 90 = 126$$

82. (B) ATQ,
Total sum

$$= 1800 \times \frac{12}{100} \times \frac{5}{12} + 1800 \times \frac{18}{100} \times \frac{2}{3} +$$

$$1800 \times \frac{15}{100} \times \frac{8}{15} + 1800 \times \frac{35}{100} \times \frac{11}{14} +$$

$$1800 \times \frac{20}{100} \times \frac{3}{5}$$

$$= 90 + 216 + 144 + 495 + 216 = 1161$$

$$\text{Required average} = \frac{1161}{5} \approx 232$$

83. (A) ATQ,
Required number

$$= 1800 \times \frac{12}{100} \times \frac{7}{12} + 1800 \times \frac{35}{100} \times \frac{3}{14}$$

$$= 126 + 135 = 261$$

84. (A) ATQ,
Girls in Tennis : Boys in Swimming
 $1800 \times \frac{20}{100} \times \frac{3}{5} : 1800 \times \frac{18}{100} \times \frac{1}{3}$
2 : 1

85. (B) ATQ,
Required number = $1800 - 1161 = 639$

86. (C) As, Marathon is a long race.
Similarly hibernation is lengthy period of **sleep**.

87. (B) Foot has 12 inches while **yard** has 36 inches.

88. (A) As,
 $24 - 44 \Rightarrow 24 + 2^2 + 4^2 = 44$
Similarly,
 $36 - \mathbf{81} \Rightarrow 36 + 3^2 + 6^2 = \mathbf{81}$

89. (A) As, $\frac{1+2+9+8}{4} = 5$

$$\text{Similarly, } \frac{8+9+1}{3} = \mathbf{6}$$

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90. (B) Number of constant is divided by number of vowels

$$\text{i.e. CONSTANT} \Rightarrow \frac{6}{2} = 3$$

$$\text{EDUCATION} = \frac{4}{5}$$

91. (D) Except **IMF**, all others organisation has their headquarter in Geneva. While headquarter of **IMF** is in **Washington DC**.

92. (D) Except **Russia**, all other countries are colonist of England.

93. (C) $12 - 42 \Rightarrow 2 \times 2, 1 \times 2 \Rightarrow 42$
 $24 - 84 \Rightarrow 4 \times 2, 2 \times 2 \Rightarrow 84$
 $23 - 68 \Rightarrow 3 \times 2, 2 \times 2 \Rightarrow 64 \neq 68$
 $31 - 26 \Rightarrow 1 \times 2, 3 \times 2 \Rightarrow 26$

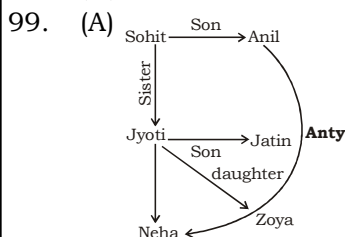
94. (B) Except **CFIN**, in all other is added next letter to get the next one letter.

95. (B) Except **673**, all others are made of odd digits only.

96. (C) $8 + 12 - 11 = 9$
 $10 + 13 - 14 = 9$
 $4 + 11 - 6 = 9$

97. (A) $\sqrt{9} + \sqrt{16} - \sqrt{4} = \sqrt{25}$
 $\sqrt{9} + \sqrt{4} - \sqrt{1} = \sqrt{16}$
 $\sqrt{49} + \sqrt{36} - \sqrt{25} = \sqrt{64}$

98. (D)



100. (D) Let the present age of Vipin = x years
 \therefore Present age of Vipin's father = $3x$
 ATQ,
 $3(3x - 6) = 72$
 $\Rightarrow 9x = 90$
 $\Rightarrow x = 10$
 \therefore Present age of Vipin = 10 years

101. (A) From both the figures,

5	6	1
5	2	4

\therefore '1' will come opposite to containing 4.

102. (D)

103. (B)

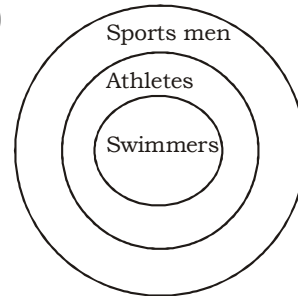
104. (A) $7, 13, 26, 30, 60, 62$
 $+6 \quad \times 2 \quad +4 \quad \times 2 \quad +2$

105. (A) $23, 28, 38, 49, 62$
 $+2+3 \quad +2+8 \quad +3+8 \quad +4+9$

106. (B) $(3)^2, (3 + 3)^2, (6 + 3)^2, (9 + 6)^2, (15 + 9)^2$
 $= 576$

107. (C) $42 + 21 \times 2 < 48 \times 3$
 $\Rightarrow 126 < 144$

108. (B)



109. (A) **abc/bca/cab/abc/bca**

110. (B)

111. (C) As, $7 \times 6 - 7 - 6 = 29$
 and, $8 \times 7 - 8 - 7 = 41$
 Similarly,
 $6 \times 5 - 6 - 5 = 19$

112. (C) As, $8 \times 7 - 7 \times 2 = 42$
 and, $7 \times 6 - 6 \times 2 = 30$
 Similarly,
 $9 \times 8 - 8 \times 2 = 56$

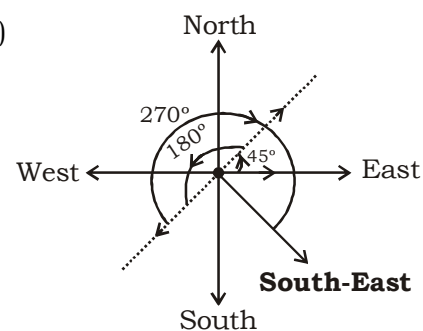
113. (B) Required time = $18 : 30 - 11 : 25$
 $= 7 : 05$

Hence, water image of 11 : 25 is 7 : 05.

114. (C)

115. (C)

116. (B)



Hence, his face is in **South-East** Direction.

117. (B) Let number of students who belong to both club = x

ATQ,
 $(23 - x) + (19 - x) = 32$
 $\Rightarrow 42 - 2x = 32$
 $\Rightarrow x = 5$

118. (C)

119. (B)

120. (B) Total number of triangles = **16**



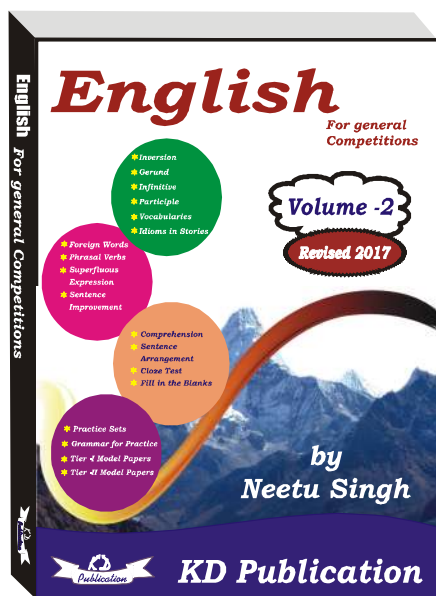
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Answer key

1. (A)	16. (D)	31. (C)	46. (B)	61. (D)	76. (C)	91. (D)	106. (B)
2. (B)	17. (A)	32. (A)	47. (B)	62. (B)	77. (D)	92. (D)	107. (C)
3. (C)	18. (A)	33. (B)	48. (B)	63. (C)	78. (A)	93. (C)	108. (B)
4. (B)	19. (A)	34. (C)	49. (A)	64. (B)	79. (D)	94. (B)	109. (A)
5. (B)	20. (D)	35. (B)	50. (C)	65. (C)	80. (A)	95. (B)	110. (B)
6. (C)	21. (D)	36. (C)	51. (B)	66. (D)	81. (B)	96. (C)	111. (C)
7. (D)	22. (B)	37. (B)	52. (C)	67. (C)	82. (B)	97. (A)	112. (C)
8. (C)	23. (D)	38. (A)	53. (C)	68. (B)	83. (A)	98. (D)	113. (B)
9. (C)	24. (A)	39. (A)	54. (A)	69. (D)	84. (A)	99. (A)	114. (C)
10. (C)	25. (C)	40. (D)	55. (A)	70. (B)	85. (B)	100. (D)	115. (C)
11. (C)	26. (A)	41. (D)	56. (B)	71. (C)	86. (C)	101. (A)	116. (B)
12. (A)	27. (C)	42. (A)	57. (D)	72. (A)	87. (B)	102. (D)	117. (B)
13. (B)	28. (B)	43. (B)	58. (B)	73. (A)	88. (A)	103. (B)	118. (C)
14. (C)	29. (A)	44. (B)	59. (D)	74. (C)	89. (A)	104. (A)	119. (B)
15. (A)	30. (B)	45. (D)	60. (C)	75. (B)	90. (B)	105. (A)	120. (B)

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CHAPTERS

- ★ Foreign Words
- ★ Phrasal Verbs
- ★ Superfluous
- ★ Expression
- ★ Sentence Improvement

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