

RPF MOCK TEST - 4 (SOLUTION)

51. (D) $1 + 8\left(\frac{1}{10} + \frac{1}{100} + \frac{1}{1000} + \dots\right)$

$$= 1 + 8\left(\frac{1}{1 - \frac{1}{10}}\right)$$

$$= 1 + 8\left(\frac{10}{9}\right) = 1 + \frac{80}{9} = 1\frac{8}{9}$$

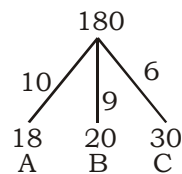
52. (C) $\frac{m}{w} = \frac{7}{6}$

$$\therefore \text{Required sum} = \frac{4800}{42} \times (63 + 84) = 16800$$

53. (A) Relative velocity = $\frac{330}{33} \times \frac{18}{5} = 36 \text{ km/hr}$

Required speed = $36 + 3 = 39 \text{ km/hr}$

54. (A)



\therefore Required number of days

$$= \frac{180 - 4 \times 15}{10} = 12$$

55. (D) Required rate = $\sqrt[3]{\frac{1157.625}{1000}} = \frac{21}{20}$

$$\frac{(21 - 20)}{20} \times 100 = 5\% \text{ per annum}$$

56. (A) Marked price = $\frac{3120}{65} \times 100 = ₹4800$

57. (C) Value of 8th result = $(8 \times 57 + 8 \times 65) - 15 \times 60 = 76$

58. (B) Net rate = $10 + 10 + \frac{10 \times 10}{100} = 21\%$

Required interest = $20,000 \times \frac{21}{100} = ₹4200$

59. (A)	CP	SP	Profit
Old	100	300	200
New	120	270	150

$$\therefore \text{Profit} = \frac{150}{120} \times 100 = 125\%$$

60. (D) Increase in total surface area = $(3\pi r^2 + 3\pi r^2) - (4\pi r^2)$
 $= 2\pi r^2$
 $= \frac{2 \times 22 \times 7 \times 7}{7} = 308 \text{ cm}^2$

61. (C) A.T.Q,
 $\text{Bus} \times 4 = \text{man} \times 6$
 $\Rightarrow \text{man} = \text{Bus} \times \frac{4}{6}$

\therefore Speed of man = $30 \times \frac{4}{6} = 20 \text{ km/hr}$

62. (A) $x = 0.\overline{15}$

$$\Rightarrow x = \frac{15}{99} = \frac{5}{33}$$

Let the capacity be x

63. (B) A.T.Q,

$$\frac{3x}{4} - \frac{5x}{12} = 50 \text{ l}$$

$$\Rightarrow \frac{3x}{4} = 50 \text{ l}$$

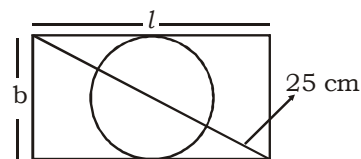
$x = 150 \text{ litre}$

Now, required capacity = 150 l

64. (D) Required percentage

$$= \frac{25}{75} \times 100 = 33.33\%$$

65. (C)



A.T.Q,

$b = \text{diameter of circle}$

$$b = 2 \times 3.5 = 7 \text{ cm}$$

and, $l = \sqrt{25^2 - 7^2} = 24 \text{ cm}$

Area = $24 \times 7 = 168 \text{ cm}^2$

Let the tenth place digit = x

66. (C) A.T.Q

$$x + 2x - 3 = \frac{1}{6}(10x + 2x)$$

$$3x - 3 = 2x$$

$$x = 3$$

Required number = $10x + 2x$

$$= 10 \times 3 + 2 \times 3 = 36$$

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67. (A) New solution = $300 \times \frac{60}{100} \times \frac{100}{40} = 450$
Required quantity = $450 - 300 = 150$ gms

68. (B) Sum of speeds = $\frac{168}{6} = 28$
Difference of speeds = 8 (given)
 \Rightarrow Speed of one = $\frac{28+8}{2} = 18$
 \Rightarrow Speed of another = 10
 \therefore Required ratio = 9 : 5

69. (D)

180	
6	5
A	B
30	36

\therefore Required time = $\frac{20 \times 11 - 180}{5} = 8$ days

70. (A) $\frac{5^2 + 6^2 + 7^2 + 8^2 + 9^2}{2 + \sqrt{3} - \sqrt{3} - 1} = 255$

71. (A) Profit = $30\% - 20\% - \frac{30 \times 20}{100}\% = 4\%$
 \Rightarrow S.P. = $\frac{48}{4} \times 104 = ₹1248$

72. (C) Total buckets = $128 \times \frac{3}{2} = 192$
Volume of tank = $(1.2)^3 = 1.728 \text{ m}^3 = 1728 \text{ l}$
 \therefore Required volume = $\frac{1728}{192} = 9 \text{ l}$

73. (B) By cross multiplication
 $\Rightarrow ad = bc$

74. (D) Total distance moved = $600 + 600 + 300 = 1500 \text{ m}$
Relative speed = $\frac{1500}{3 \times 60} \times \frac{18}{5} = 30 \text{ kmph}$
 \therefore Speed of train = $30 + 5 = 35 \text{ kmph}$

75. (A)

P		
I	II	III
SI	SI	SI
	A	A
		A
		B

Difference between CI and SI
= $390.2 - 3 \times 125$
 $\Rightarrow 3A + B = 15.2$
 $\Rightarrow A = 5, B = 0.2$
 \therefore Interest rate = $\frac{B}{A} \times 100 = \frac{0.2}{5} \times 100 = 4\%$

76. (B) Required time = $\frac{1600 \times 10 \times 900}{1000 \times 800} = 18$ days

77. (A) A.T.Q,
 $\frac{\text{Younger}}{\text{elder}} = \frac{120}{130}$
 \Rightarrow Younger's share = $\frac{20000}{25} \times 12 = ₹9600$

78. (B) A.T.Q
 $a^2 + b^2 + c^2 = 120$
 $\Rightarrow 2c + c^2 = 120$
 $\Rightarrow c = 10$
 $\Rightarrow a^2 + b^2 = 2 \times 10$
 $\Rightarrow a = 2, b = 4$
 $\Rightarrow abc = 2 \times 4 \times 10 = 80$

79. (B) A.T.Q
 $a + a + d + a + 2d = 30$
 $a + d = 10$
 $\therefore 10(10 - d)(10 + d) = 960$
 $d = 2$
Required number = $10 + 2 = 12$

80. (C) Profit = $\frac{30}{900} \times 100 = \frac{10}{3}\%$
 $\frac{10}{3}$

 $\frac{20}{30} \quad \frac{55}{3}$
 $\Rightarrow 20 \quad 55$
C.P. of type-II cake = $\frac{900}{75} \times \frac{55}{6} = ₹110$

81. (B) A.T.Q
 $2\pi r(r+h) = 1320$
 $r = 7 \text{ cm}$
 $h = 23 \text{ cm}$
Volume $\frac{22}{7} \times 7 \times 7 \times 23 = 3542 \text{ cm}^3$

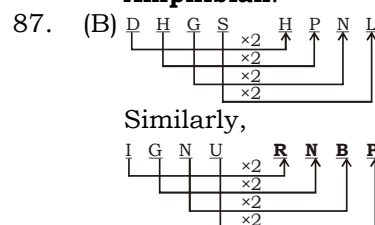
82. (A) Ratio of time = $\frac{4}{3}$ 1 unit = 20
4 unit = 80 min
Required time = 80 min

83. (A) Required percentage = $\frac{75}{225} \times 100 = 33.3\%$

84. (A) Required ratio = $1175 : 1025 = 47 : 41$

85. (B) Required percentage = $\frac{325}{400} \times 100 = 81.25\%$

86. (C) As, Snake is specie of reptiles.
Similarly Salamander is the specie of **Amphibian**.



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88. (A) As,

$$\begin{array}{ccc} A & P & K \\ \downarrow & \downarrow & \downarrow \\ (1)^2 & (16)^2 & (11)^2 \Rightarrow 1256121 \end{array}$$
 Similarly,

$$\begin{array}{ccc} L & N & O \\ \downarrow & \downarrow & \downarrow \\ (12)^2 & (14)^2 & (15)^2 \Rightarrow \mathbf{144196225} \end{array}$$
89. (D) As,

$$534 \Rightarrow \frac{5+3+4}{3} = (2)^2$$
 Similarly, $999 \Rightarrow \frac{9+9+9}{3} = (3)^2$
90. (B) As, $42 \Rightarrow 42 + \frac{42}{3} = 56$
 Similarly, $54 \Rightarrow 54 + \frac{54}{3} = \mathbf{72}$
91. (D) Except **97**, the sum of digits of all others is prime number.
92. (D) Except **P.V. Sindhu**, all others were the gold medalist in commonwealth 2018. While P.V. Sindhu was the silver medalist.
93. (B) Except 17 - **343**, square of the product of digits of first number is the second number.
94. (D) Except **Pakistan**, at all other because Indians have don't need of visa to visit.
95. (C)
$$\begin{array}{ccc} D & L & X \\ \downarrow & \downarrow & \downarrow \\ + (3 \times 2) & +12 & \\ \hline C & I & S \\ \downarrow & \downarrow & \downarrow \\ + (4 \times 2) & +10 & \end{array} \quad \begin{array}{ccc} A & C & F \\ \downarrow & \downarrow & \downarrow \\ + (1 \times 2) & +3 & \\ \hline E & O & D \\ \downarrow & \downarrow & \downarrow \\ + (5 \times 2) & +15 & \end{array}$$
96. (A) As, $6 \times 4 \times 2 - (6 + 4 + 2) = 36$
 and, $2 \times 4 \times 5 - (2 + 4 + 5) = 29$
 Similarly, $8 \times 6 \times 3 - (8 + 6 + 3) = \mathbf{127}$
97. (B) $7 \times 6 = 42 \Rightarrow 24$
 $9 \times 6 = 54 \Rightarrow 45$
 $6 \times 2 = 12 \Rightarrow \mathbf{21}$
98. (B)
99. (B) **Book 1** > book 4 > book 2 > book 3
100. (A)
101. (A) From figure
 $6 \leftrightarrow 3$
 $2 \leftrightarrow 4.$
 $1 \leftrightarrow 5$

 \therefore will be formed by folding the figure.
102. (C)
103. (C)

104. (A)
$$\begin{array}{cccccc} 3. & 6. & 11. & 20. & 37 \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ 3 & 5 & 9 & 17 & \\ \downarrow & \downarrow & \downarrow & \downarrow & \\ \times 2 & \times 2 & \times 2 & \times 2 & \end{array}$$
105. (A)
$$\begin{array}{cccccc} 7. & 39. & 199. & 999. & 4999 \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ \times 5+4 & \times 5+4 & \times 5+4 & \times 5+4 & \end{array}$$
106. (D)
$$\begin{array}{cccccc} & +2 & +4 & +6 & \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ 2A & 11. & 4D & 13. & 12G & 17. & 48J & 23 \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ \times 2 & \times 3 & \times 3 & \times 4 & \times 4 & \times 4 & \times 4 & \times 4 \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ +3 & +3 & +3 & +10 & \end{array}$$
107. (D)
108. (D)
109. (B) **lmlnk/lmlnk/lmlnk/lm**
110. (C)
- I. \times
 II. \times
 III. \checkmark
 IV. \times
- Hence, only conclusion III follows.
111. (B) As, $(2)^2 + (3)^3 = 31$
 and, $(6)^1 + (4)^1 = 22$
 Similarly, $(3)^4 + (4) = \mathbf{85}$
112. (A) As, $576 - 135 = 441$
 and, $472 - 135 = 337$
 Similarly, $341 - 135 = \mathbf{206}$
113. (C)
114. (B)
115. (C)
116. (B)
117. (A)
118. (A) **14C10A42D2B8**
 After changing the signs,
 $14 \times 10 + 42 \div 2 - 8$
 $= 140 \quad 21 - 8$
 $= \mathbf{153}$
119. (C) Number of triangles = 15
120. (D)
$$\begin{array}{ccccc} R & A & T & E & S \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ \mathbf{02,} & \mathbf{12,} & \mathbf{67,} & \mathbf{04,} & \mathbf{96} \end{array}$$

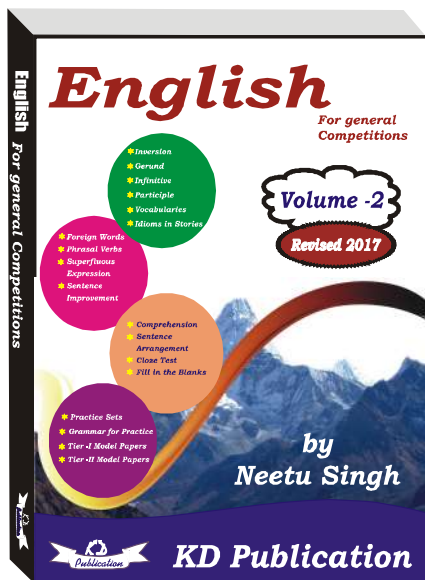
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Answer key

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

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CHAPTERS

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

Note:- If your opinion differs regarding any answer, please message the mock test and question number to 8860330003

Note:- Whatsapp with Mock Test No. and Question No. at 7053606571 for any of the doubts, also share your suggestions and experience of Sunday Mock

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