## RPF MOCK TEST - 3 (SOLUTION)

51. (C) The minimum number of Bananas
$=$ L.C.M of $(6,8,10,12,15,16)+4$
$=24+4 \Rightarrow 244$
52. (B) Per copy cost price for the customer of

$$
45 \text { magazines }=\frac{7}{10} \times 90=₹ 63
$$

Per copy cost price for the buyer of 26

$$
\text { magazine }=\frac{3}{4} \times 90=₹ 67.50
$$

$\therefore \quad$ Required diff. $=67.50-63=₹ 4.50$
53. (A) Area of walls $=2(l+b) \times h$
$=2(8+6) \times 3=84 \mathrm{~m}^{2}$
Area of two windows and a door
$=2\left(1 \frac{1}{2} \times 1\right)+\left(2 \times 1 \frac{1}{2}\right)=6 \mathrm{~m}^{2}$
$\therefore$ Area to be covered $=84-6$

$$
=78 \mathrm{~m}^{2}
$$

$\therefore$ Area of paper $=$ Area to be covered $=78$
$\Rightarrow$ (length $\times$ breadth) of paper $=78$
$\Rightarrow$ length of paper $=\frac{78}{50} \times 100 \mathrm{~m}$

$$
=156 \mathrm{~m}
$$

$\therefore$ Required cost $=\frac{156 \times 25}{100}=₹ 39$
54. (B) Area of large cube $=6(5)^{2}$

$$
\text { = } 150 \text { (unit) }
$$

Area of cuboid $=2(1 \times 1+1+125+125 \times 1)$

$$
=502 \text { sq.units }
$$

$\therefore$ Percentage increase in surface area
$=\frac{502-150}{150} \times 100=234 \frac{2}{3} \%$
55. (A) Let the fraction be $=\frac{x}{y}$

ATQ,
$\frac{x \times 140}{2 y \times 100}=\frac{7}{16}$
$\therefore$ Original fraction $=\frac{5}{8}$
56. (A) Let the downstream and upstream speed be $3 x$ and $5 x$.

Speed of the current $=3 \frac{3}{4} \mathrm{~km} / \mathrm{hr}$
A.T.Q,
$\Rightarrow \quad \frac{5 x-3 x}{2}=\frac{15}{4} \mathrm{~km} / \mathrm{hr}$
$\Rightarrow x=\frac{15}{4} \mathrm{~km} / \mathrm{hr}$
$\therefore \quad$ Speed of the boat in still water
$=\frac{5 x+3 x}{2}=4 x$
$=\frac{4 \times 15}{4} \mathrm{~km} / \mathrm{hr}=15 \mathrm{~km} / \mathrm{hr}$
57. (D) Let the number of students $=x$ A.T.Q.,
$\frac{x}{2}-5=\frac{x}{3}-2$
$\Rightarrow \frac{x}{2}-\frac{x}{3}=3$
$\Rightarrow \frac{3 x-2 x}{6}=3$
$\Rightarrow x=18$
So, the number of students $=18$
58. (C) Let total
A.T.Q.,

Mark $=x$
$\frac{x \times 30}{100}+96=\frac{x \times 45}{100} \times 24$
$\Rightarrow \quad \frac{15 x}{100}=120$
$x=800$
Total marks $=800$
Passing marks $=240+96$
$=336$
$\therefore \quad$ Required percentage $\%=\frac{336}{800} \times 100$ $\Rightarrow 42 \%$
59. (C) The minute hand complete one revolution in 60 minute.
$\therefore$ In 50 minute it will cover $\frac{50}{60}=\frac{5}{6}$
$z$ of the revolution.
$\because 1$ revolution $=2 \pi$ radian.
$\therefore \frac{5}{6}$ revolution $=2 \pi \times \frac{5}{6}=\frac{5 \pi}{3}$ radian
$\therefore$ Distance moved by tip $=3 \times \frac{5 \pi}{3} \mathrm{~cm}$

$$
=5 \pi \mathrm{~cm}
$$

$=5 \times \frac{22}{7} \mathrm{~cm}=15.71 \mathrm{~cm}$
60.(C) Let sum $=₹ x$
A.T.Q.,
$x-4400=\frac{x \times 5 \times 100}{9 \times 100}$
$\Rightarrow 9 x-39600=59$
$\Rightarrow x=9900$
61.(B) ATQ.,

Total number of male $=\frac{32600 \times 28}{41}$
$=22400$
Total number of female $=10400$
Total number married male $=\frac{22400 \times 100}{700}$
$=3200$
$\therefore$ Required percentage $=\frac{3200}{10400} \times 100$
$=30 \frac{10}{13} \%$
62.(B) Sides are in ratio 5:4


Let the sides are $5 x$ and $4 x$ units
$\therefore$ parallelogram's area $=$ greater side $\times$ altitude
$\Rightarrow 1000=5 x \times 20 \Rightarrow x=10$
similarly parallelogram's area $=$ smaller
side $\times$ its altitude
$\Rightarrow 1000=4 x \times$ its altitude
$\Rightarrow 1000=4 \times 10 \times$ it's altitude
$\therefore$ altitude $=25$ units
63. (D) Let $x$ litres from each vessel are mixed
$\therefore$ Total water in third vessel
$=\frac{3 x}{7}+\frac{5 x}{8}=\frac{59 x}{56}$
Total milk in third vessel
$=\frac{4 x}{7}+\frac{3 x}{8}=\frac{53 x}{56}$
$\therefore$ Required ratio $=\frac{59 x}{56}: \frac{53 x}{56}=59: 53$
64. (D)

$\therefore \quad 16$ unit $\rightarrow$ 1900-300
$\Rightarrow \quad$ 1unit $\rightarrow 100$
then, 32 UNITS $\rightarrow 32 \times 100=3200$
65.(A) Let the original number is $x$
$\therefore$ answer obtained by student $=x \times 7.2=7.2 x$ but correct answer $=0.72 x$
$\Rightarrow 7.2 x-0.72 x=2592 \Rightarrow 6.48 x=2592$
$\Rightarrow x=\frac{2592}{6.48}=400$
$\therefore$ The original number is 400
66.(C) The time taken by A in 1 round $=\frac{35}{4} \mathrm{hrs}$

The time taken by B in 1 round $=\frac{35}{5} \mathrm{hrs}$
$\therefore$ L.C.M of $\frac{35}{4}$ and $\frac{35}{5}=35$
$\therefore$ They will meet earliest again after 35 hours.
67. (B) Let the total quantity of hematite mined $=100 \mathrm{~kg}$.
ATQ,

$\therefore 20$ units $=80,000 \mathrm{~kg}$
$\Rightarrow 1$ unit $=4,000 \mathrm{~kg}$
$\therefore$ Total hematite $=100 \times 4000=4,00,000 \mathrm{~kg}$
68. (B) Here, first divisor (175) is a multiple of second divisor (25).
$\therefore$ Required remainder $=$ Remainder obtained on dividing 132 by $25=7$
69. (D) Required average weight
$\frac{(50 \times 6+51 \times 2+55 \times 2)}{10}=\frac{300+102+110}{10}$
$=\frac{512}{10}=51.2 \mathrm{~kg}$
70. (B) $675=5 \times 5 \times 3 \times 3 \times 3$
$\therefore$ Required number $=5$
71. (B) Discount $=300-274.50=₹ 25.50$
$\therefore$ Discount $\%=\frac{25.50}{300} \times 100=8.5 \%$
72. (A) Let the price of table be $t$ and chair be $c$.

$$
\begin{equation*}
4 t+5 c=1000 \tag{i}
\end{equation*}
$$

$$
\begin{align*}
& 4 \times\left(t \times \frac{110}{100}\right)+5 \times\left(c \times \frac{120}{100}\right)-(4 t+5 c)=120 \\
& \frac{44 t}{10}-4 \mathrm{t}+\frac{30 c}{5}-5 \mathrm{c}=120 \\
& \frac{4 t}{10}+c=120 \\
& \Rightarrow 4 \mathrm{t}+10 \mathrm{c}=1200  \tag{ii}\\
& \Rightarrow 4 \mathrm{t}+5 \mathrm{c}=1000  \tag{i}\\
&-\quad-\quad \ldots \text { (ii) } \\
& \Rightarrow \mathrm{Ec}=200 \\
& \Rightarrow \mathrm{c}=₹ 40
\end{align*}
$$

$\therefore \mathrm{t}=₹ 200$
Cost of 1 table = ₹ 200

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73. (D) Total number of vote $=1136+7636+11628$
$=20400$
Required percentage $=\frac{11628}{20400} \times 100$
= 57\%
74. (B) Let number of boys $=\mathrm{B}$ and Girls $=\mathrm{G}$

$$
\begin{array}{rlrl} 
& B & =G-2 \\
& & B+G & =52 \\
\therefore & G-2+G & =52 \\
\Rightarrow & & G & =27, B=25
\end{array}
$$

$$
\text { Total weight }=52 \times 52=2704 \mathrm{~kg}
$$

Total weight of boys $=25 \times 60=1500 \mathrm{~kg}$
Total weight of girls $=2704-1500$

$$
=1204 \mathrm{~kg}
$$

$\therefore$ Average weight of girls $=\frac{1204}{27}=44.59 \mathrm{~kg}$
75. (A) Let the larger number be $x$ and smaller be $y$
$\therefore x-\frac{y}{2}=\left(y-\frac{y}{2}\right) \times 5$
$\Rightarrow \frac{2 x-y}{2}=\frac{y}{2} \times 5$
$\Rightarrow 2 x-y=5 y$
$\Rightarrow 2 x=6 y \Rightarrow \frac{x}{y}=\frac{6}{2}$
$\Rightarrow x: y=3: 1$
76. (B) Let the no. be 30 and 28 respectively. then, the sum of number $=30+28=58$
Now, divide the number by 17 , then we have 7 as the remainder.
77. (A) Distance travelled by have in

$$
1 \text { minute }=\frac{9 \times 5}{18} \times 60=150 \mathrm{~m}
$$

$\therefore$ Time taken by hound to catch hare
$=\frac{180+150}{(12-9) \times 5} \times 18$
$=\frac{330 \times 18}{3 \times 15}$
$=396 \mathrm{sec}$.
$\therefore$ Required distance $=\frac{396 \times 12 \times 5}{18}$ $=1320 \mathrm{~m}$.
78. (B) If $a+b+c=0$, then $a^{3}+b^{3}+c^{3}=3 a b c$

Here, $0.111+0.222+(-0.333)=0$
$=-3 \times 0.111 \times 0.222 \times 0.333$
$=-(0.333)^{2} \times 0.222$
$\therefore$ Expression
$=\left[-(0.333)^{2} \times 0.222+(0.333)^{2} \times 0.222\right]^{3}=0$
79. (C) $\because 1+2+3+\ldots+n=\frac{n(n+1)}{2}$
$\therefore 1+2+3+\ldots+25$
$=\frac{25(25+1)}{2}=25 \times 13$
Hence, 13 is a factor of required sum.
80. (A)


Total work in 1 cycle $=12$ units in 2 days
$\therefore$ total time taken by
A and $B=5 \frac{4}{5}$ days
81. (B) Average number of people using mobile service for all the years
$=\frac{20+25+10+35+25}{5}$ thousands
$=23000$
82. (C) Required ratio
$=20: 15=4: 3$
83. (A) Required percentage

$$
=\frac{40}{50} \times 100=80 \%
$$

84. (A) Required percentage
$=\frac{15}{75} \times 100=20 \%$
85.(D) Average number of people using all the mobile service throughout all the year
$=\frac{50+60+40+75+65}{5}$ thousands
$=58000{ }^{\circledR}$
85. (B)
86. (C) As,


Similarly,

88. (A) As,
$3^{3}+3=30$
$4^{4}+4=260$
89. (D) As,
$168 \div 3=56$
Similarly,
$1296 \div 4=324$
90. (C) As,
$7528-4195=3333$
Similarly, $4673-1340=3333$
91. (D)

92. (C) Except Dipika Pallikal, all others are tennis players. While Dipika Pallikal is a squash player.
93. (C) Except $(\mathbf{2 4}, \mathbf{5 6})$, all others pairs are of the co-prime numbers.
94. (A) Except Ounce, all others are the currency of defferent nation. While Ounce is the unit of weight.
95. (C) Except 29-84, in digits of all others sum of digits of first number is equal to sum of digits of second number.
96. (B) As,
$(7+3) 2+1=21$
and, $(6+2) 2+1=17$
Similarly,
$(4+7) 2+1=\mathbf{2 3}$
97. (A) $6+9=15$

98. (D)
99. (A) Number of odd days
$=1+1+1+2=5$
$\therefore$ Required day $=$ saturday
100. (B)

Starting point

101. (A)

102. (A)

103. (D)

105. (A) $2 \times 3-2=4$
$3 \times 4-3=9$
$4 \times 9-4=32$
$9 \times 32-9=\mathbf{2 7 9}$
106. (A)

107. (D) Required place $=18+6-4=20$
108. (C)

109. (B) cab/bdc/ecd/fde/ge
110. (D)

I. $\times$
II. $\times$

Neither conclusion I nor II follows.
111. (A) As,
$17+55 \Rightarrow \frac{72}{2}=36$
and, $97+47 \Rightarrow \frac{144}{2}=72$
Similarly,
$28+56 \Rightarrow \frac{84}{2}=42$
112. (B)

113. (C)
114. (B)
115. (D)
116. (C)

117. (C)

118. (B) Let the fare from city $P$ to $Q$ and $\mathrm{R}=x$ and $y$
ATQ,
$2 x+3 y=84$
$3 x+2 y=81$
On solving equation (i) and (ii), We get,

$$
\begin{aligned}
& y=18
\end{aligned}
$$

and $x=15$
119. (C) Total number of triangles $=\mathbf{8}$
120. (A) Required number $=10+10=20$

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

## For all general competitive exams



## 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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