



# Grand Test – SCP 180664



31. (3)  $? = \frac{40}{100} \times \frac{60}{100} \times \frac{3}{5} \times 2750 = 396$

32. (4)  $(14 + 16 + 14 + 12) + \left(\frac{1}{11} + \frac{3}{11} + \frac{4}{121} + \frac{3}{11}\right) = ?$   
 $? = 56 + \left(\frac{11+33+4+33}{121}\right)$   
 $= 56 + \frac{81}{121}$   
 $= 56 \frac{81}{121}$

33. (5)  $49.5 + 987 - 48 = ?$   
 Or,  $? = 988.5$

34. (1)  $? = 700 + 99 = 799$

35. (4)  $? = \frac{19600}{70} \times 16 \times \frac{1}{8} \times \frac{1}{14} = 40$

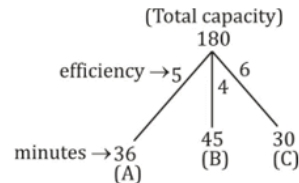
36. (3) According to the question,  
 Average weight of 3 men A, B, and C = 84 kg.  
 $\Rightarrow$  Total weight of (A + B + C) =  $84 \times 3 = 252$  kg  
 $\Rightarrow$  After joining D, average of 4 men (A + B + C + D) = 80 kg  
 $\Rightarrow$  Total weight (A + B + C + D) =  $80 \times 4 = 320$  kg ... (i)  
 $\Rightarrow$  Weight of D =  $320 - 252 = 68$  kg  
 $\Rightarrow$  Weight of E =  $D + 3 = 68 + 3 = 71$  kg  
 $\therefore$  B, C, D and E average weight = 79  
 Total weight (B + C + D + E) =  $79 \times 4 = 316$  kg ... (ii)  
 After (ii) - (i)  
 $E - A = 316 - 320$   
 $71 - A = -4$   
 $A = 75$

37. (4) According to questions  
 CP of 2 dozen bananas (24 bananas) is = Rs.32  
 SP of 1 dozen bananas (12 bananas) is = Rs. 12  
 SP of 18 bananas is Rs. 18  
 $\therefore$  Now shopkeeper reduced the rate to Rs. 4/dozen  
 Now SP of 1 dozen bananas is Rs. 4  
 SP of 6 bananas is Rs. 2  
 $\therefore$  SP of total 24 bananas is (2 dozens) is  
 Rs.  $18 + 2 = 20$   
 Loss = CP - SP  
 $= 32 - 20 = \text{Rs. } 12$   
 Loss % =  $\frac{12}{32} \times 100 = 37.5\%$

38. (2)  $R\% = \frac{2662 - 2420}{2420} \times 100$   
 $= \frac{242}{2420} \times 100 = 10\%$   
 2 years CI % =  $10 + 10 + \frac{10 \times 10}{100} = 21\%$   
 So,  $121\% = 2420$   
 $100\% = 2000$

39. (1)  $A + B = 94$   
 $\therefore \frac{A}{5} : \frac{B}{8} = 3 : 4$   
 $\frac{A \times 8}{5 \times 8} = \frac{3}{4}$   
 $\frac{A}{5} \times \frac{8}{8} = \frac{3}{4}$   
 $\frac{A}{5} = \frac{3}{4} \times \frac{5}{8} = \frac{15}{32}$   
 $A : B = 15 : 32$   
 Let A and B be  $15x$  and  $32x$  respectively.  
 $\therefore 15x + 32x = 47x$   
 $47x = 94$   
 $x = 2$   
 $\therefore A = 2 \times 15 = 30$   
 $B = 32 \times 2 = 64$

40. (2)



(A + B)'s 7 minutes filling (A + B)  
 $= (5 + 4) \times 7 = 63$  Units  
 Remaining capacity =  $180 - 63 = 117$  units  
 Now C is opened, it empties by 6 units/min.  
 So total units filled in tank is  
 $= (5 + 4) - 6 = 3$  units/min  
 Now tank can be filled in =  $\frac{117}{3} = 39$  min.  
 Tank is filled up in  
 $= 7 + 39$  minutes = 46 min.

41. (2) Marks scored by Yogesh in KOM and TOM together  
 $= (65 + 75)\% \times 200$   
 $= 140\% \times 200 = 280$   
 Marks scored by Pratap in Mechanics & Machine design together  
 $= (69 + 63)\% \times 200$   
 $= 132\% \times 2 = 264$   
 Required difference =  $280 - 264 = 16$   
 Alternate,  
 Required difference =  $(65 + 75 - 69 - 63)\% \times 200$   
 $= 8\% \times 200 = 16$

42. (3) Total marks scored in Maths =  $(65 + 76 + 69)\%$   
 $= 210\%$   
 Total marks scored in Machine design =  $(89 + 63 + 88)\%$   
 $= 240\%$   
 Required % =  $\frac{240 - 210}{240} \times 100 = \frac{30}{240} \times 100 = 12.5\%$

43. (5) Average Marks scored by Yogesh in percentage  
 $= \frac{[65 + 95 + 89 + 65 + 75]\%}{5}$   
 $= \frac{389}{5}\% = 77.8\%$   
 Average Marks scored by Pratap in four subject except TOM  
 $= \frac{(76 + 69 + 63 + 72)}{4} = \frac{280}{4} = 70\%$

44. (4) Required difference =  $(77.8 - 70)\% \times 200$   
 $= \frac{7.8}{100} \times 200 = 15.6$   
 Average marks scored by Pratap in Maths & TOM together  
 $= \frac{(76 + 84)\%}{2} \times 200$   
 $= 80\% \times 200 = 160$

Average marks scored by Ranjan in Maths, KOM & TOM all together  
 $= \frac{(69 + 51 + 72)\%}{3} \times 200$   
 $= \frac{192}{3} \times 2 = 128$   
 Required difference =  $160 - 128 = 32$

45. (4) Pratap's total marks  
 $= \frac{(76 + 69 + 63 + 72 + 84)}{100} \times 200$   
 $= 728$   
 Ranjan's total marks =  $\frac{(69 + 68 + 88 + 51 + 72)}{100} \times 200$   
 $= 696$   
 Required difference =  $728 - 696 = 32$   
 Alternate  
 Required difference  
 $= [(76 + 69 + 63 + 72 + 84) - (69 + 68 + 88 + 51 + 72)] \times \frac{200}{100}$   
 $= [364 - 348] \times 2$   
 $= 16 \times 2 = 32$

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46. (2)  $? = 666.06 + 66.60 + 0.66 + 6.06 + 6 + 60 = 805.38$

47. (5)  $? = 69 \div 3 \times 0.85 + 14.5 - 3$   
 $= \frac{69}{3} \times 0.85 + 11.5$   
 $= 23 \times 0.85 + 11.5$   
 $= 19.55 + 11.5 = 31.05$

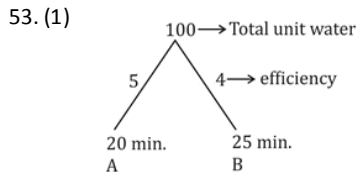
48. (4)  $? = (10)^{24} \times (10)^{-21}$   
 $= (10)^{24-21} = 10^3 = 1000$

49. (3)  $? = 15 - \frac{33}{4} - 60\% \text{ of } \frac{6}{5}$   
 $= (\frac{60-33}{4}) - \frac{6}{5} \times \frac{60}{100}$   
 $= \frac{27}{4} - \frac{18}{25} = \frac{675-72}{100} = \frac{603}{100} = 6.03$

50. (4)  $\sqrt{?} + 136 = 320 \times \frac{5}{8}$   
 $\Rightarrow \sqrt{?} + 136 = 200$   
 $\Rightarrow \sqrt{?} = 200 - 136 = 64$   
 $\Rightarrow ? = 64 \times 64 = 4096$

51. (3) Total interest rate for  $x = 7.5 \times 4 = 30\%$   
 Total interest rate for  $y = 7.5 \times 5 = 37.5\%$   
 Difference in rates =  $(37.5 - 30)\% = 7.5\%$   
 According to the question,  
 7.5% of sum = 150  
 1% of sum =  $\frac{150}{7.5}$   
 Individual sum =  $\frac{150}{7.5} \times 100 = \text{Rs. } 2000$   
 Hence Required sum = Rs. 2000

52. (2) Let total no. of worker is 'N'  
 According to question  
 $\frac{N \times 100 \text{ days}}{1 \text{ work}} = \frac{(N-10) \times 110 \text{ days}}{1 \text{ work}}$   
 $100N = 110N - 1100$   
 $10N = 1100$   
 $\Rightarrow N = 110$



After '5' min the water fill by A + B  
 $5 \times 9 = 45$  unit water  
 Then remaining water unit =  $100 - 45 = 55$   
 This remaining unit water filled by A  
 $= \frac{55}{5} = 11$  minutes

54. (2) Let the length of smaller line segment =  $x$  cm  
 The length of larger line segment =  $(x + 2)$  cm  
 According to question,  
 $(x + 2)^2 - x^2 = 32$   
 $x^2 + 4x + 4 - x^2 = 32$   
 $x = \frac{28}{4} = 7$   
 The required length =  $x + 2$   
 $= 7 + 2 = 9$  cm

55. (3) Total distance covered by man in (1 : 30 pm – 10 : 00 am)

$3\frac{1}{2}$  hour = at a speed of 12 km/hr  
 $= 12 \times 3\frac{1}{2} = 42$  km. (Total distance)  
 Time taken by his elder brother to catch him =  $3\frac{1}{2}$  hour – 1 hour 15 min.  
 $\therefore$  Brother's time = 3 hr 30 min - 1 hr 15 min = 2 hr 15 min  
 $= 2\frac{15}{60} = 2\frac{1}{4} \Rightarrow \frac{9}{4}$  hour  
 $\Rightarrow$  Brother's speed  
 $= \frac{42}{\frac{9}{4}} \quad \left\{ \text{speed} = \frac{\text{distance}}{\text{time}} \right\}$   
 $= 18\frac{2}{3}$  km/h

56. (3) Series is +8, +16, +24, +32, 40....  
 $\therefore ? = 153 + 32 = 185$

57. (2) Series is -7, -11, -13, -17, -19, -23 (prime numbers)  
 $\therefore ? = 560 - 23$

58. (4) Series is  $\times 2, \times 4, \times 6, \times 8, \times 10..$   
 $\therefore ? = 144 \times 8$   
 $= 1152$

59. (1) Series is + 25, + 20, + 15, + 10, + 5  
 $\therefore ? = 5 \div 5$

60. (2) Series is  $\times 10 + 10, \times 8 + 8, \times 6 + 6, \times 4 + 4, \times 2 + 2$   
 $\therefore ? = 4060 \times 2 + 2$   
 $= 8122$

61. (3)  $? = 25\% \times 640 + 45\% \text{ of } 360$   
 $= 160 + 162 = 322$

62. (2)  $\frac{1550}{25} - 18 + \sqrt{?} = 65$

$62 - 18 + \sqrt{?} = 65$   
 $44 + \sqrt{?} = 65$   
 $\sqrt{?} = 21$   
 $? = 441$

63. (5)  $? = 400 - 145 + 30 \times 12$   
 $= 255 + 360 = 615$

64. (2)  $12^2 + \frac{9600}{12} + ? = 35^2$

$? = 1225 - 144 - 800$   
 $? = 281$

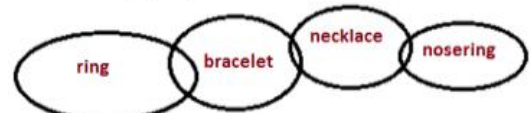
65. (2)  $(3)^? = \frac{729}{81} \times \frac{27}{81}$

$= 3$   
 $? = 1$

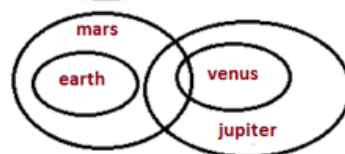
66. (4)



67. (2)



68. (1)

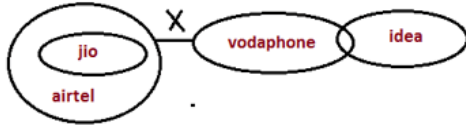


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69. (4)



70. (2)



71 - 75

7	R	goodday
6	M	Hide&seek
5	L	Parle G
4	P	Tiger
3	O	Snacks
2	Q	Oreo
1	N	Lite

71. (4)

72. (1)

73. (3)

74. (5)

75. (5)

76 - 80.

Days	Person	Places
Monday	E	Forrest
Tuesday	B	lake
Wednesday	F	theater
Thursday	D/G	zoo
Friday	A	park
Saturday	G/D	carnival
Sunday	C	circus

76. (2)

77. (1)

78. (5)

79. (4)

80. (2)

81 - 85.



81. (2)

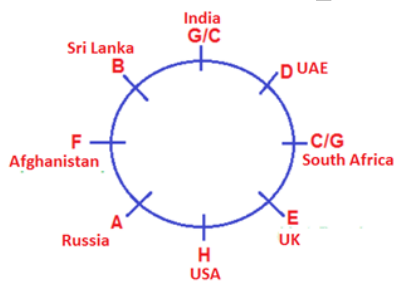
82. (1)

83. (3)

84. (4)

85. (5)

86-90.



86. (4)

87. (5)

88. (3)

89. (3)

90. (2)

91. (1) I.  $Q < L$  (True)

II.  $R < L$  (False)

92. (4) I.  $A = W$  (False)

II.  $A < W$  (False)

93. (3) I.  $P \leq L$  (False)

II.  $P > L$  (False)

94. (2) I.  $Z \geq F$  (False)

II.  $M > F$  (True)

95. (5) I.  $B > I$  (True)

II.  $H \geq F$  (True)

96. (5) 474

97. (3)  $(5+8+1) = 14$

98. (2)  $8*5=40$

99. (3) Two

100. (3) Two

