



**J.K. SHAH**<sup>®</sup>  
TEST SERIES

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## **SUGGESTED ANSWERS**

**CA FOUNDATION**

**Test Code – JK-QA-03**

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**Answers**

1. (c) 5 : 13
2. (b) 77 : 58
3. (b) 3.6 : 4.8
4. (a)  $\frac{1}{2}[\sqrt{x+y} + \sqrt{x-y}]$
5. (a)  $\frac{3}{7}$
6. (c) 1
7. (b) 2
8. (b) 3
9. (b)  $x\left(\frac{1}{y} + \frac{1}{z} + \frac{1}{w}\right)$
10. (d) None of these
11. (a)  $\frac{12}{25}$
12. (b) 45
13. (c)  $\frac{a \pm b}{2}$
14. (a) 125 ; - 27
15. (a) 25km/hr
16. (a) 5cm. 8cm
17. (b)  $\begin{bmatrix} 2 & 1 \\ 0 & -1 \end{bmatrix}$
18. (a) 0
19. (d) None

20. (c)  $3x_1 + x_2 \leq 36$   
 $5x_1 + 2x_2 \leq 50$   
 $2x_1 + 6x_2 \leq 60$   
 $x_1 \geq 0, x_2 \geq 0$
21. (b)  $x + y \leq 5, x \geq 2, y \geq 1$
22. (a) 4%
23. (c) 1487.11
24. (b) ₹ 12613.10
25. (b) ₹ 97430
26. (a) 3600
27. (b) ₹669.17
28. (a)  $\frac{2(x-1)}{x+1}$
29. (c) ₹ 37.647
30. (c) 6 yrs
31. (a) ₹ 25,000 and ₹ 15,000 respectively.
32. (b)  $(8! \times 4!) \div (2!)^3$
33. (b) 35
34. (c) 121
35. (b) 200
36. (c) Sum of first and last term
37. (a)  $\frac{x}{a} - \frac{a}{x}$
38. (b)  $\frac{(\log y)^2}{\log y - 1}$

39. (b)  $\frac{-4}{3} (x^3 + 2)^{-2} + C$
40. (b)  $\frac{[\text{Log}2e]^{n+1}}{n+1} - \frac{\text{Log}e}{n+1}$
41. (a) 2
42. (b) abbab
43. (b) 536
44. (c) South
45. (b) North - East
46. (d) 60 kms
47. (d) P
48. (d) None of these
49. (a) MV
50. (b) Mother
51. (c) Cousin
52. (a) Nephew
53. (b) 10m
54. (c) South - east
55. (d) E
56. (a) if only I follows
57. (d) if neither I nor II follows
58. (d) if neither I nor II follows
59. (b) 19
60. (c) 10 – 7 – 20 – 13 – 11 – 24
61. (c) Chronology

62. (b) Class Boundaries
63. (c) Histogram
64. (c) A discrete variable
65. (d) Caption
66. (b) 10
67. (c) Central Tendency
68. (d) all observation have the same sign and none is zero
69. (c) 1 : 2
70. (a)  $2^{\frac{n+1}{2}}$
71. (c) Absolute measures of dispersion
72. (c) Variation
73. (a) 400
74. (a) 45 , 7.56
75. (c) A and B cannot be independent
76. (d) A is not an impossible event.
77. (c)  $1 - (5/6)^4$
78. (b) 0.50
79. (b) 13/20
80. (c) 2
81. (b) 1/3
82. (a) Variance < Mean
83. (c) 253
84. (a) 4,  $\frac{1}{2}$

85. (c) 9
86. (b) False
87. (b) - 1
88. (c) Coefficient of concurrent deviation
89. (b) from lower left corner to upper right corner
90. (a)  $\frac{x}{m} + \frac{y}{n} = 1$
91. (a) - 1
92. (a) Both positive or both negative
93. (a)  $\frac{8}{75}$
94. (b) - 0.5
95. (b) Dorbish's & Boriley's Index
96. (a)  $P_{01} \times P_{12} \times P_{20} = 1$
97. (c) ₹ 250/-
98. (d) Historigram
99. (a) ₹ 2768.75
100. (a)  $Y_t = 58.33 + 20x$