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1997, GROUND FLOOR OPPOSITE MUKHERJEE NAGAR POLICE STATION, OUTRAM LINES, GTB NAGAR, NEW DELHI – 09							
57. (3)	Amount after two years = ₹5775						
	Amount after three years = (6930)						
	1 vear.						
	Then,						
	$6930 = 5775 \left(1 + \frac{R}{100}\right)^1$						
	6930 R						
	$\frac{3333}{5775} = 1 + \frac{11}{100}$						
	6020 P						
	$\frac{6930}{5775} - 1 = \frac{R}{100}$						
	$\frac{6930-5775}{5775} = \frac{R}{100}$						
	$\frac{R}{100} = \frac{1155}{5775}$						
	100 5775						
	$\frac{R}{R} = \frac{1}{R}$						
	100 5						
	$R = \frac{100}{20\%} = 20\%$						
	5 2070						
58. (4)	$\sqrt{25} \div 5 - 16 \div (-64 \div 8) + \sqrt{2601} \div \sqrt{(200 + 89)} + 2^8 \div 64$						
	$= \sqrt{25 \div 5 - 16 \div -8 \div 51 \div 17 + 256 \div 64}$						
	$= 5 \div 5 - 16 \div - 8 + 3 + 4$						
59 (2)	= 1 + 2 + 3 + 4 = 10 Let the two numbers be x and y						
39. (2)	Now						
	x: 13:: 13: y						
	v 13						
	$\frac{x}{13} = \frac{13}{y}$						
	$\mathbf{x} = \frac{169}{(i)}$ (i)						
	y						
	And, x : y : : y : 832						
	$\underline{\mathbf{x}} = \underline{\mathbf{y}}$						
	y 832						
	169 y						
	$\frac{1}{y^2} = \frac{1}{832}$						
	$y^3 = 169 \times 832$						
	$v = \sqrt[3]{140608}$						
	v = 52						
	<u> </u>						
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Put the value of y in equation (i),

$$x = \frac{169}{y} = \frac{163}{52} = \frac{13}{4}$$

 \therefore Required numbers are 52 and $\frac{13}{4}$.
60. (3) A's profit as remuneration in a year - 120 × 12 = ₹1440
Let the annual profit be $5x$.
Then, $7(x - 1440)$ will be distributed between A and B as their share of profit.
Ratio of their profit = 40000 : 50000 = 4 : 5
A's share in the profit - 1440 + (x - 1440) × $\frac{4}{9}$
 $3600 = 1440 - (x - 1440) × \frac{4}{9}$
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 $3600 = x + 260$
 $x = x + 2800$
 $x = 2800 × 282 = 7128$
 $x = x + 2800 × 282 = 7280$
 $x = x + 2800 × 382 = 7280$
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$$= \frac{7\sqrt{2} - 4\sqrt{3}}{5\sqrt{2} - 5\sqrt{3}} = \frac{6\sqrt{2} - 3\sqrt{3}}{6\sqrt{2} - 5\sqrt{3}} = \frac{(84 - 35\sqrt{6} - 24\sqrt{6} + 60) + (60 - 15\sqrt{6} - 24\sqrt{6} + 36)}{60 - 25\sqrt{6} - 24\sqrt{6} + 60} = \frac{240 - 98\sqrt{6}}{120 - 49\sqrt{6}} = \frac{2}{120 - 49\sqrt{6}} = \frac{2}{120 - 49\sqrt{6}} = -2$$
71. (1) Profit on article D = $\frac{252}{18} \times 100 = ₹1400$
Selling price of article D = $\frac{252}{18} \times 100 = ₹1400$
Selling price = 1400 + 252 = ₹1652
 \therefore Marked price of an article $= \frac{1652}{70} \times 100 = ₹2360$
72. (3) Profit on article F = $\frac{264}{120} \times 100 = ₹2200$
Cost price of article F = $\frac{2164}{100} = ₹2200$
 \therefore Profit on article C = $22000 \times \frac{10}{100} = ₹2200$
73. (4) Marked price of article A = $\frac{1530}{120} \times 100 = ₹1800$
 \therefore Cost price of article A = $\frac{1500}{35} \times 100 = ₹1800$
 \therefore Cost price of article A = $\frac{1500}{30} \times 100 = ₹1800$
74. (3) Cost price of article E = $2340 \times \frac{125}{100} = ₹2925$
75. (1) Marked price of article B = $\frac{720}{24} \times 100 = ₹3000$
Selling price of article B = $\frac{720}{24} \times 100 = ₹3000$
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Selling price of article B = $\frac{720}{24} \times 100 = ₹3000$
Selling price of article B = $\frac{720}{125} \times 100 = ₹3000$
Selling price of article B = $\frac{720}{126} \times 100 = ₹1824$
Profit when no discount is allowed - 3000 - 1824 - ₹1176
 \therefore Profit $\sqrt{(\frac{1172}{1824} \times 100)} \% = 64.47\% \approx 64\%$

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11

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MEANINGS IN ALPHABETICAL ORDER

Obsolete	No longer produced or used; out of date; Archaic	अप्रचलित, पुराना
Liberate	to free	मुक्त करना
Fallacy	a mistaken belief, especially one based on	भ्रांति
	unsound arguments	
Replica	an exact copy or model of something	प्रतिरूप
Daunt	make (someone) feel intimidated or apprehensive	हतोत्साह करना, डराना
Ornate	elaborately or highly decorated	सुशोभित
Anonymous	(of a person) not identified by name; of unknown name	गुमनाम
Biography	an account of someone's life written by someone else	जीवनी
Demagogue	a leader who makes false claims and promises in	जनोत्तेजक नेता
	order to gain power	
Tyrant	a cruel and oppressive ruler	निरंकुश शासक
Obituary	a notice of a death, especially in a newspaper typically	शोक समाचार
	including a brief biography of the deceased person	
Plagiarism	the practice of taking someone else's work or ideas	साहित्यिक चोरी
	and passing them off as one's own	
Conspicuous	attracting notice or attention	বিशिष्ट
Conjuror	a performer of clever tricks that seem magic	करतब दिखाने वाला
Voluntary	done, given, or acting of one's own free will	स्वैच्छिक
Homage	special honour or respect shown publicly	श्रद्धांजलि

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12

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SSC MOCK TEST - 414 (ANSWER KEY)

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17. (1) 18. (4)	42. (1) 43. (4)	67. (1) 68. (3)	92. (3) 93. (3)
19. (2) 20. (1)	44. (4) 45. (1)	69. (2) 70. (4)	94. (4) 95. (4)
21. (1)	46. (2)	71. (1)	96. (2) 97. (2)
22. (1) 23 (4)	47. (4) 48. (3)	72. (3) 73 (4)	97. (3) 98. (4)
23. (+) 24 (1)	49 (3)	73. (1) 74 (3)	99 (4)
25. (4)	50. (2)	75. (1)	100. (4)

- (1) If two articles are used before two ordinals, the noun following must be singular. Change 'episodes' into 'episode'.
- 77. (3) Change 'some ' into 'somewhat' before 'angry'.
- 84. (3) 'Get away' means ' to escape'. 'Get away' is followed by 'with'.
- 85. (3) 'A big draw' means 'a big source of attraction'.
- 86. (1) Verb 'avoid' takes Gerund after it. Use 'avoid going to'
- 87. (2) 'Break into' means ' to enter by force.'
- 90. (2) The correct spelling of 'Demogogue' is Demagogue, 'Homege' is 'Homage' and 'Obitury' is 'Obituary'.
- 91. (3) The correct spelling of 'Plegiarism' is 'Plagiarism', 'Conspicous' is 'Conspicuous' and 'Voluntery' is 'Voluntary'.

13