Campus K D Campus Pvt. Ltd

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1997, GROUND FLOOR OPPOSITE MUKHERJEE NAGAR POLICE STATION, OUTRAM LINES, GTB NAGAR, NEW DELHI - 09

SSC MOCK TEST - 373 (SOLUTION)

1. (2) As,

2.

3.

4.

5.

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$$N \rightarrow \frac{14}{2} = 7 \rightarrow (7)^2 = 49$$

$$B \rightarrow \frac{2}{2} = 1 \rightarrow (1)^2 = 1$$

$$P \rightarrow \frac{16}{2} = 8 \rightarrow (8)^2 = 64$$

$$D \rightarrow \frac{4}{2} = 2 \rightarrow (2)^2 = 4$$
Similarly,
$$R \rightarrow \frac{18}{2} = 9 \rightarrow (9)^2 = 81$$

$$F \rightarrow \frac{6}{2} = 3 \rightarrow (3)^2 = 9$$

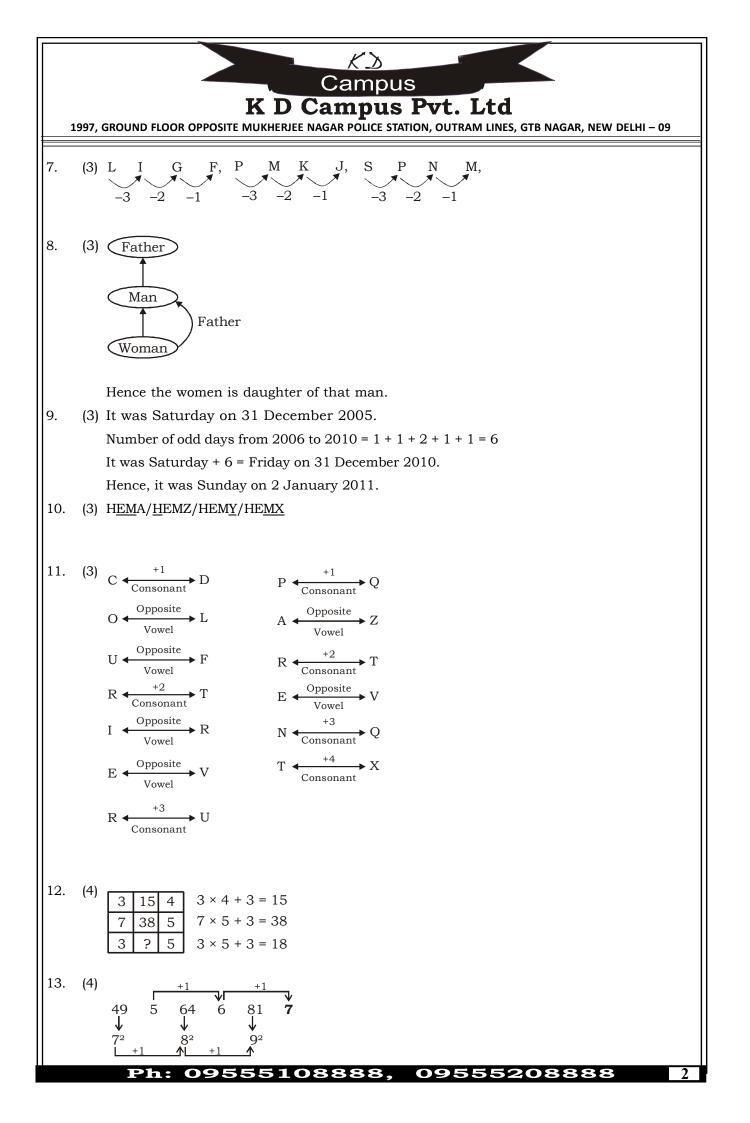
$$T \rightarrow \frac{20}{2} = 10 \rightarrow (10)^2 = 100$$

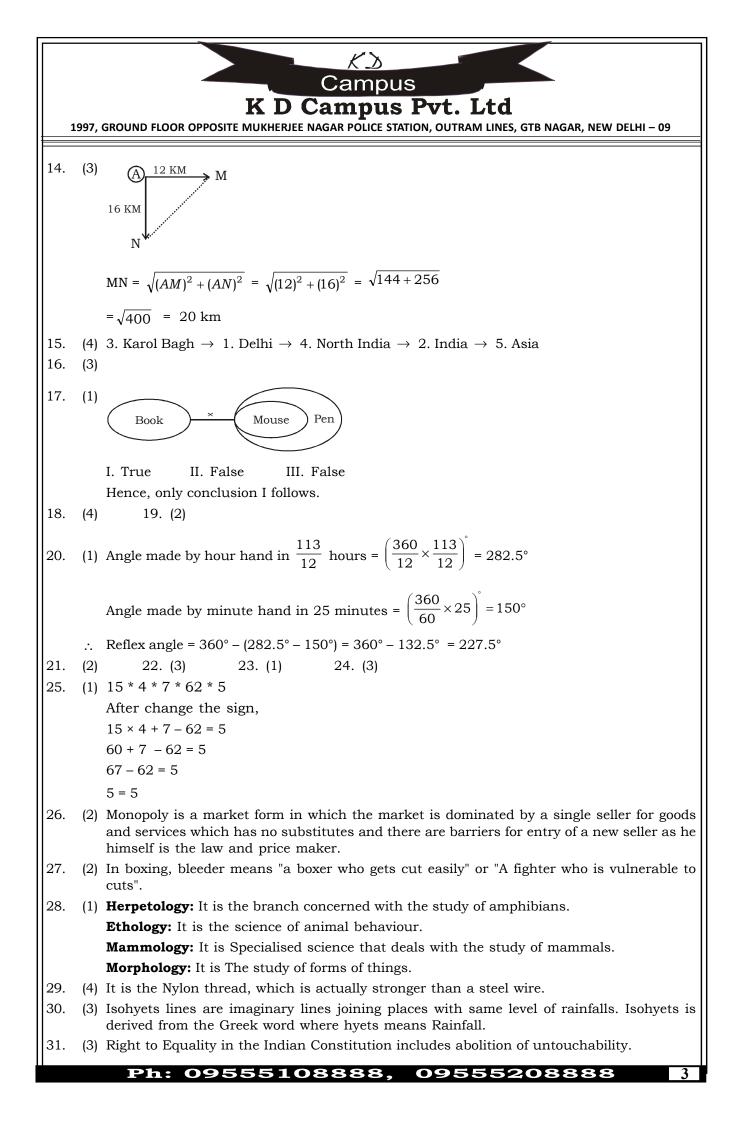
$$H \rightarrow \frac{8}{2} = 4 \rightarrow (4)^2 = 16$$
(4) As,
$$\begin{pmatrix} 1 & 5 & 3 \\ \downarrow & \downarrow & \downarrow \\ 1^2 + 5^2 - 3 \times 2 = 26 - 6 = 20$$
Similarly,
$$\begin{pmatrix} 4 & 5 & 4 \\ \downarrow & \downarrow & \downarrow \\ (4)^2 + (5)^2 - 4 \times 2 = 41 - 8 = 33 \end{cases}$$
(4) Fork, Knife and Bin are used in kitchen, while Sword is used in battle.
(3) Krone, Rial and Peso is a currency of Denmark, Iran and Argentina respectively, while 'Quito' is the capital of 'Ecuador'.
(3) As, (8 + 7) \times (8 - 7) = 15
And, (24 + 17) $\times (24 - 17) = 287$
Similarly, (11 + 8) $\times (11 - 8) = 57$

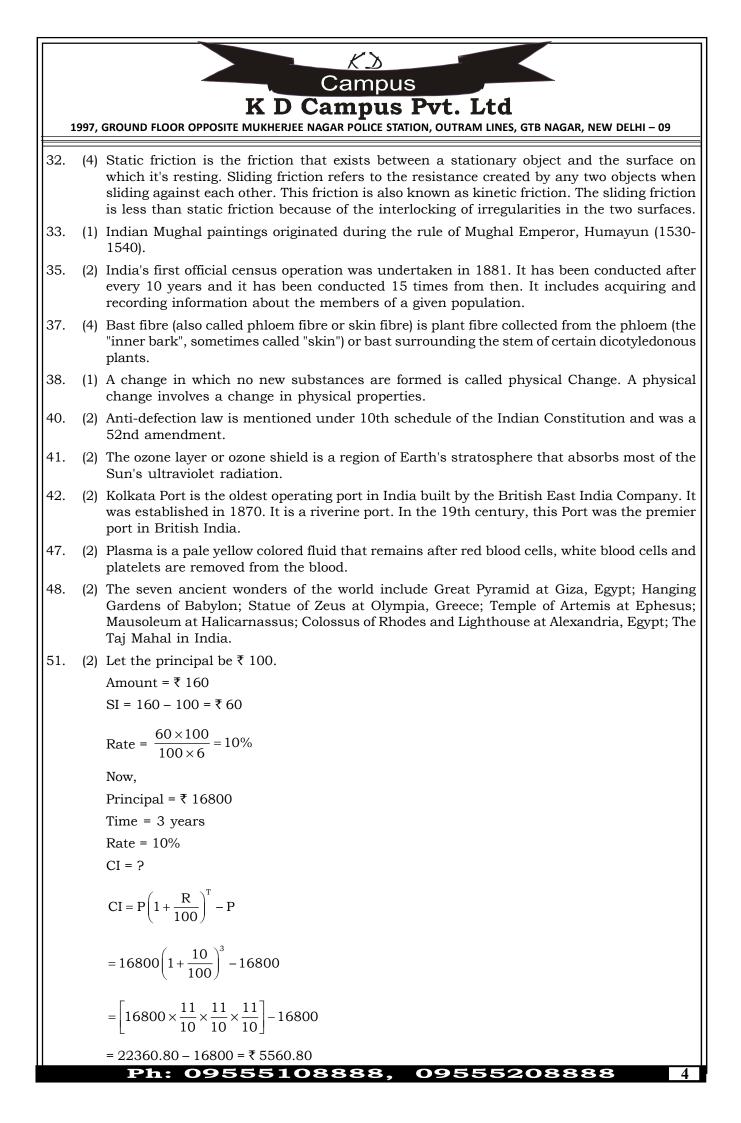
6. (2) 3125, 3280, 3435, 5220, 5430, 5640, 3320, 3510, 3700

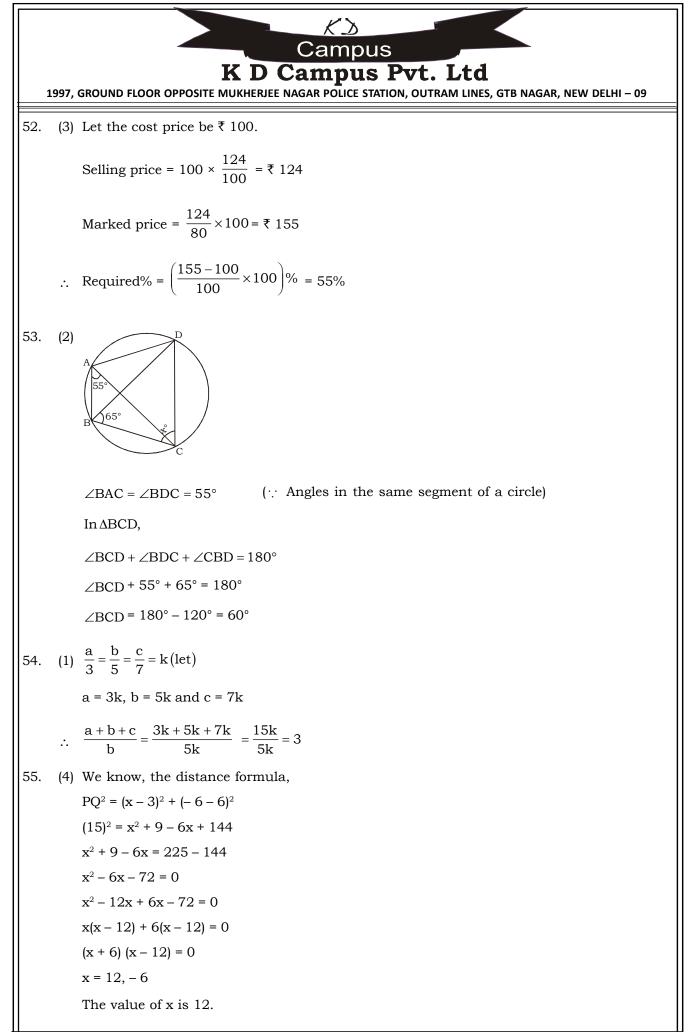
$$+155$$
 $+155$ $+210$ $+210$ $+190$ $+190$

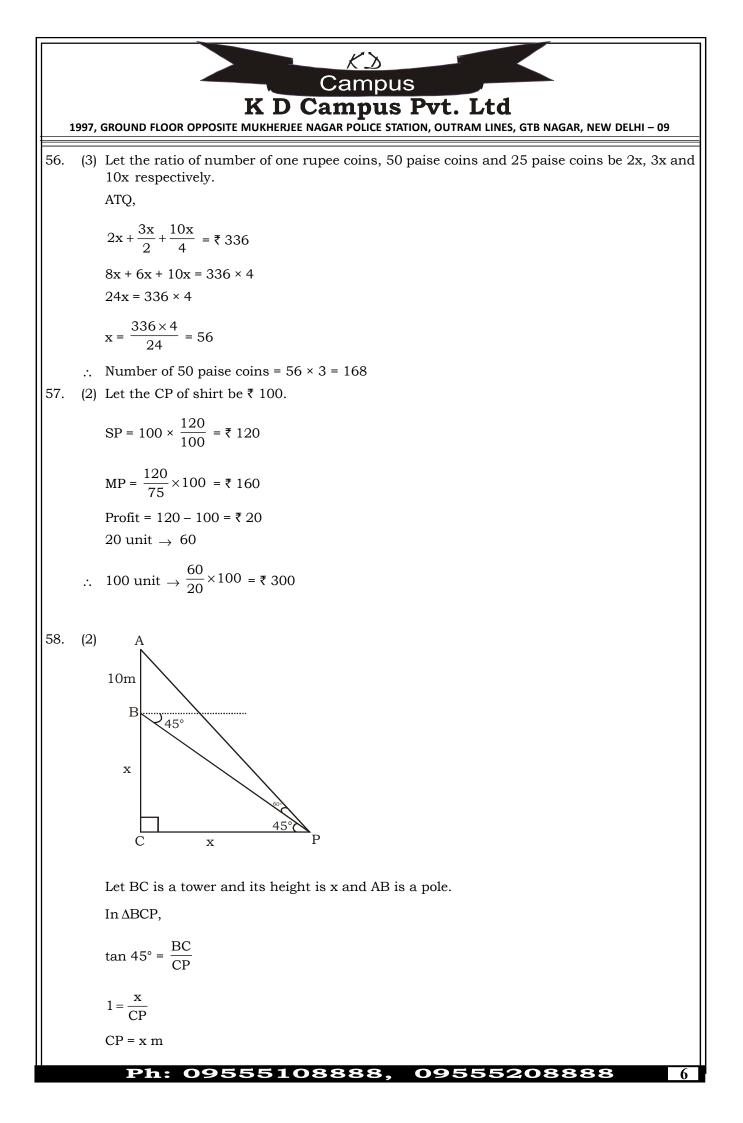
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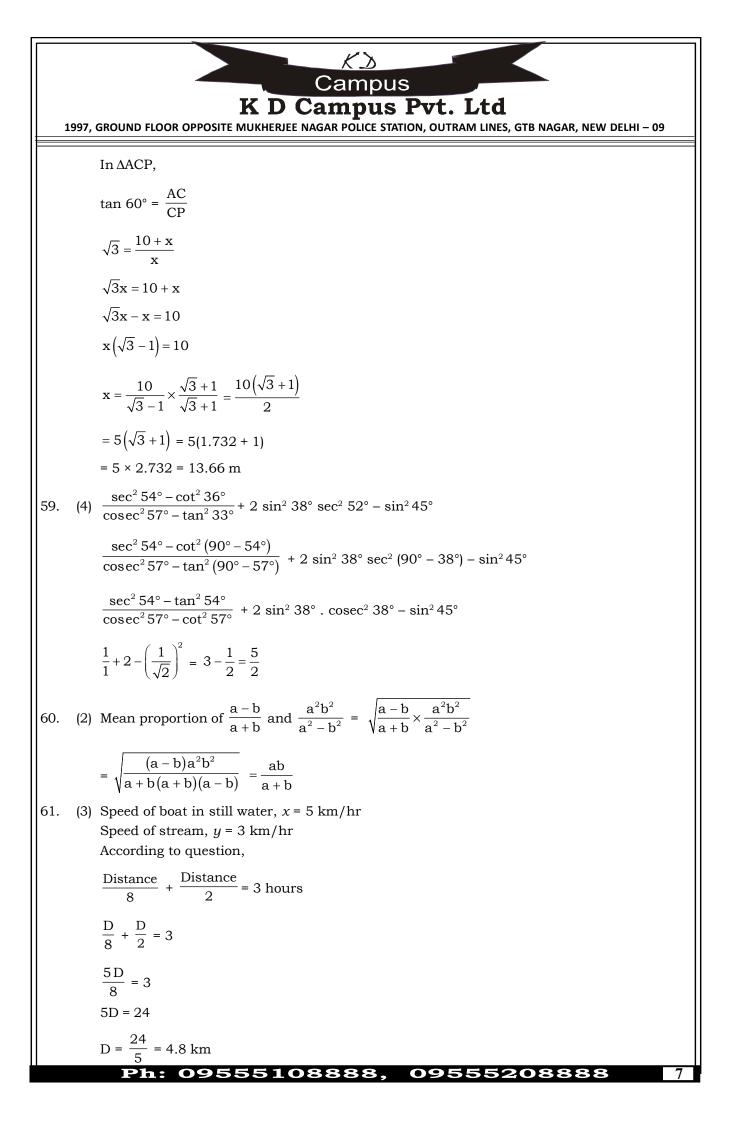


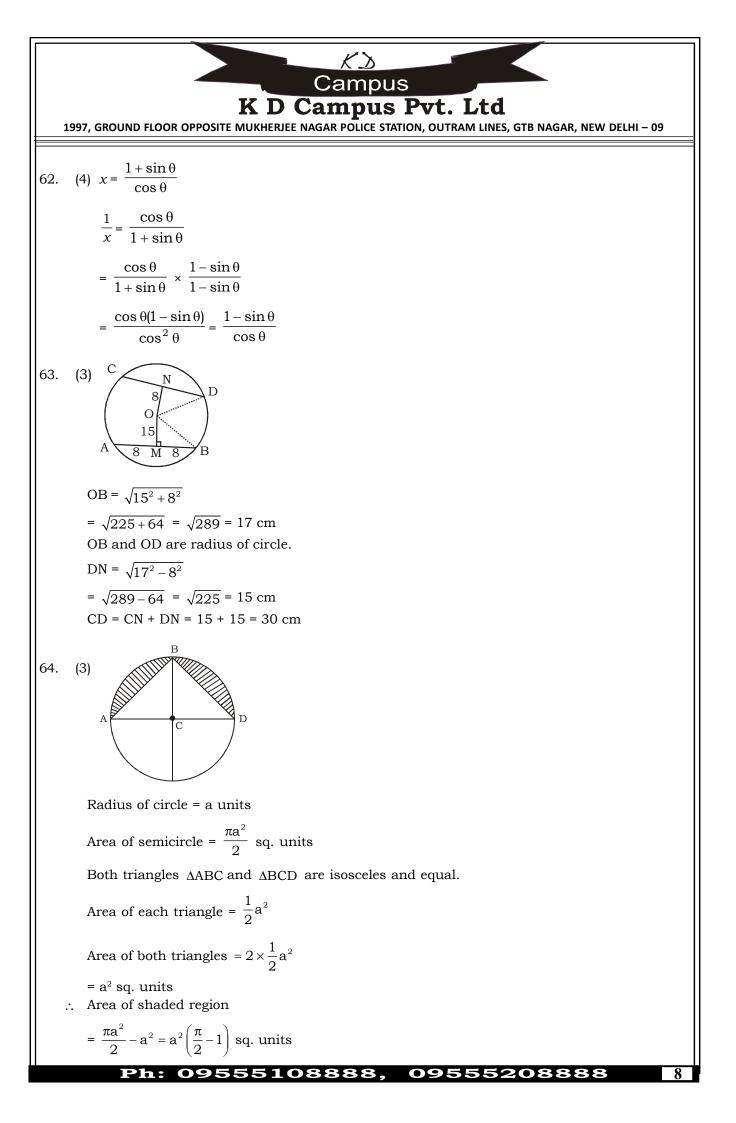












EXAMPLE 1997 GROUND FLOOD OPPOSITE MARKENEE RAGAR POLICE STATION, OUTRAM LINES, GTE MAGAR, NEW DELHI - 99
65. (2) Investment ratio in terms of one month or of their equivalent capitals, A : B : C

$$= \left\{ (60000 \times 4) + (\frac{6000}{2} \times 8) \right\} : \left\{ (35000 \times 8) + (\frac{15000}{2} \times 4) \right\} : (80000 \times 4)$$

$$= 481:35:32$$
66. (4) Let the opponent got x votes then winner got x + 200 votes.
ATQ,

$$\frac{70\%}{100} = 150 = 24400 + x + \frac{1}{3.04\%} + \frac{1}{3.00\%} + \frac{1}{100} + \frac{1}{100} \times 12500 - 150 - 4100$$
Total votes = 12500
Votes, for the losing candidate = $\frac{34}{100} \times 12500 - 150 - 4100$
Total votes cast = 12500 $\times 700 = 8750$
Required% = $\frac{4100}{8.750} \times 100 - 46.85\%$
67. (2) $[t^{-1}-8^{-1}t^{-1}-(\frac{1}{3}-\frac{1}{4})^{-1}] = \left[(\frac{8-7}{56})^{-1} - (\frac{4-3}{12})^{-1} \right]$

$$= \left[(\frac{1}{56})^{-1} - (\frac{1}{12})^{-1} \right] = 56 - 12 = 44$$

68. (1) The equation the circle is (x + 1) (x + 2) + (y - 1) (y + 3) = 0
 $x^{2} + y^{2} + 3x + 2y - 1 = 0$
On comparing with the standard equation of circle,
 $x^{2} + y^{2} + 3x + 2y - 1 = 0$
Area of the circle = $\sqrt{y^{2} + y^{2} - c}$

$$= \sqrt{\left(\frac{3}{2}\right)^{2} + 1^{2} - (-1) = \sqrt{\frac{9}{4} + 2} = \frac{\sqrt{17}}{2}$$

Area of the circle = π^{2}

$$= \pi \times \left(\frac{\sqrt{17}}{2}\right)^{2} = \frac{17}{4} \pi sq. unit$$

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EXPLICIC COMPARENCE FINAL POLICE STATION, OUTRALLINES, GTB NAGAR, NEW DELHI - 09
(9) (2) Let the length of each of the equal side of the ground be x metre.
Base of the playground = 24 m
Area of ground =
$$\frac{15}{25} \times 100 = 60 \text{ m}^2$$

But the ground has isosceles shape
Area of ground = $\frac{a}{4} \sqrt{4x^2 - a^2}$ [where $a = base, x = each of the equal sides]
 $\frac{24}{4} \sqrt{4x^2 - (24)^2} = 60$
 $4x - (24)^2 - (10)^2$
 $4x^2 - 576 = 100$
 $4x^2 - 676$
 $x^2 = \frac{676}{4} = 169$
 $x = 13$
 \therefore Length of each of the equal side = 13 m
70. (4) Let the rate of interest = R% per annum
ATQ,
 $A = p\left(1 + \frac{R}{100}\right)^2$...(i)
 $2420 - p\left(1 + \frac{R}{100}\right)^2$...(ii)
Equation (ii) divided by (i),
 $1 + \frac{R}{100} = \frac{2662}{2420} - 1$
 $\frac{R}{100} = \frac{2662}{2420} - 1$
 $\frac{R}{10} = \frac{2662 - 2420}{2420} = \frac{242}{110} = \frac{1}{10}$
R = $\frac{1}{10} \times 100 - 10\%$
71. (2) Number of Computer sold in H = $36000 \times \frac{40}{100} = 14400$
 \therefore Required ratio = 5000 : 14400
 $= 25 : 72$$

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 72. (1) Number of Computer sold in:

$$A = 5000 \times \frac{35}{100} = 1750$$
 $B = 15000 \times \frac{40}{100} = 6000$
 $E = 32500 \times \frac{35}{100} = 11375$
 $G = 24000 \times \frac{35}{100} = 8400$

 Required answer is A

 73. (4) Number of Computer sold in $F = 40000 \times \frac{25}{100} = 10000$

 Number of Computer sold in $G = 24000 \times \frac{35}{100} = 8400$
 \therefore Required $\% = \left[\frac{(10000 - 8400)}{1000} \times 100 \right] \% = 16\%$

 74. (2) Required average

 $= \frac{24000 \times \frac{35}{100} + 36000 \times \frac{40}{100}}{2} = 11400$

 75. (1) Number of Computer sold in $C = 25000 \times \frac{30}{100} = 7500$

 Number of Computer sold in $B = 15000 \times \frac{40}{100} = 6000$

 Required $\% = \left(\frac{7500}{6000} \times 100\right)^{\%} = 125\%$

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K D Campus Pvt. Ltd 1997, ground floor opposite mukherjee nagar police station, outram lines, gtb nagar, new delhi – 09

MEANINGS IN ALPHABETICAL ORDER

Assorted	of various sorts put together; miscellaneous	मिश्रित
Dirge	a lament for the dead, especially one forming	शोकगीत
	part of a funeral rite	
Disparate	essentially different in kind; not allowing comparison	मुक्तलिफ
Docile	ready to accept control or instruction; submissive	विनम्र
Effete	(of a person) affected, overrefined, and ineffectual	अशक्त
Epicure	a person who takes particular pleasure in fine food and drink	रसिया
Felony	a crime, typically one involving violence	घोर अपराध
Grime	dirt ingrained on the surface of something	जमी हुई कोट
Homogenous	of the same kind; alike	सजातीय
Incursion	an invasion or attack, especially a sudden or brief one	चढ़ाई
Infallible	incapable of making mistakes or being wrong	अचूक
Irrevocable	not able to be changed, reversed, or recovered; final	स्थिर
Kaleidoscopic	having complex patterns of colors; multicolored	जल्दी जल्दी बदलता हुआ
Motley	incongruously varied in appearance or character;	पंचमेल
	disparate	
Retreat	(of an army) withdraw from enemy forces as a result of	पीछे हटना
	their superior power or after a defeat	
Rotund	(of a person) plump	गोल
Spine	the backbone	रीढ़ की हड्डी
Supple	bending and moving easily and gracefully; flexible	कोमल
Venial	denoting a sin that is not regarded as depriving the soul	क्षम्य
	of divine grace	
Vertebrae	each of the series of small bones forming the backbone	कशेरुका
Violation	the action of violating someone or something	उल्लंघन

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1997, GROUND FLOOR OPPOSITE MUKHERJEE NAGAR POLICE STATION, OUTRAM LINES, GTB NAGAR, NEW DELHI - 09

SSC MOCK TEST - 373 (ANSWER KEY)

1. (2)	26. (2)	51. (2)	76. (3)
2. (4)	27. (2)	52. (3)	77. (2)
3. (4)	28. (1)	53. (2)	78. (1)
4. (3)	29. (4)	54. (1)	79. (4)
5. (3)	30. (3)	55. (4)	80. (2)
6. (2)	31. (3)	56. (3)	81. (3)
7. (3)	32. (4)	57. (2)	82. (3)
8. (3)	33. (1)	58. (2)	83. (2)
9. (3)	34. (2)	59. (4)	84. (4)
10. (3)	35. (2)	60. (2)	85. (4)
11. (3)	36. (3)	61. (3)	86. (3)
12. (4)	37. (4)	62. (4)	87. (3)
13. (4)	38. (1)	63. (3)	88. (2)
14. (3)	39. (2)	64. (3)	89. (2)
15. (4)	40. (2)	65. (2)	90. (4)
16. (3)	41. (2)	66. (4)	91. (1)
17. (1)	42. (2)	67. (2)	92. (1)
18. (4)	43. (1)	68. (1)	93. (2)
19. (2)	44. (2)	69. (2)	94. (3)
20. (1)	45. (3)	70. (4)	95. (3)
21. (2)	46. (4)	71. (2)	96. (1)
22. (3)	47. (2)	72. (1)	97. (3)
23. (1)	48. (2)	73. (4)	98. (2)
24. (3)	49. (4)	74. (2)	99. (4)
25. (4)	50. (1)	75. (1)	100. (B)

- 76. (3) A sentence starting with 'unless' doesn't take negative form.
- 77. (2) Replace 'about' by 'for'.
- 86. (1) The correct Indirect speech of the Past Indefinite Tense should be in Past Perfect Tense.
- 87. (3) 'Obviously' is an adverb of manner meaning 'clearly apparent'. An adverb is a word that modifies an adjective, verb (i.e. that had obviously been built, here, in this entence) or adverb.
- 90. (4) The correct spelling of 'Legitemacy' is 'Legitimacy', 'Suprimacy' is 'Supremacy' and 'Idiosy' is 'Idiocy'.
- 91. (1) The correct spelling of 'Grivence' is 'Grievance', 'Resemblence' is 'Resemblance' and 'Allowence' is 'Allowance'.