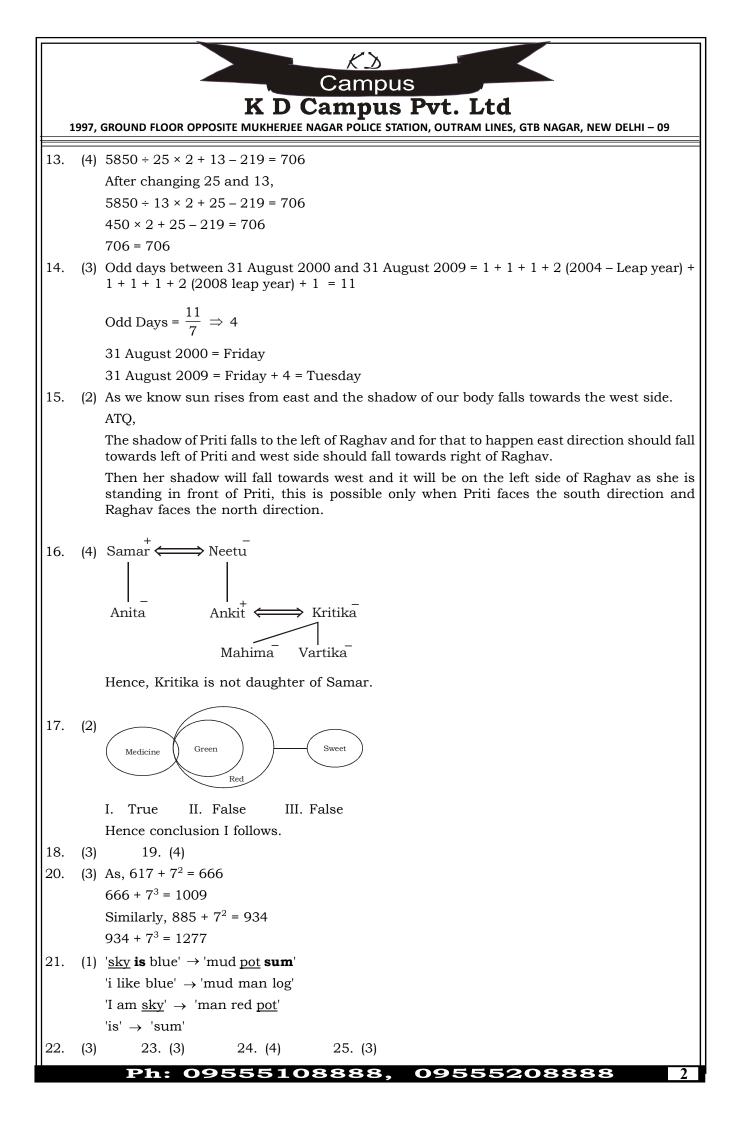
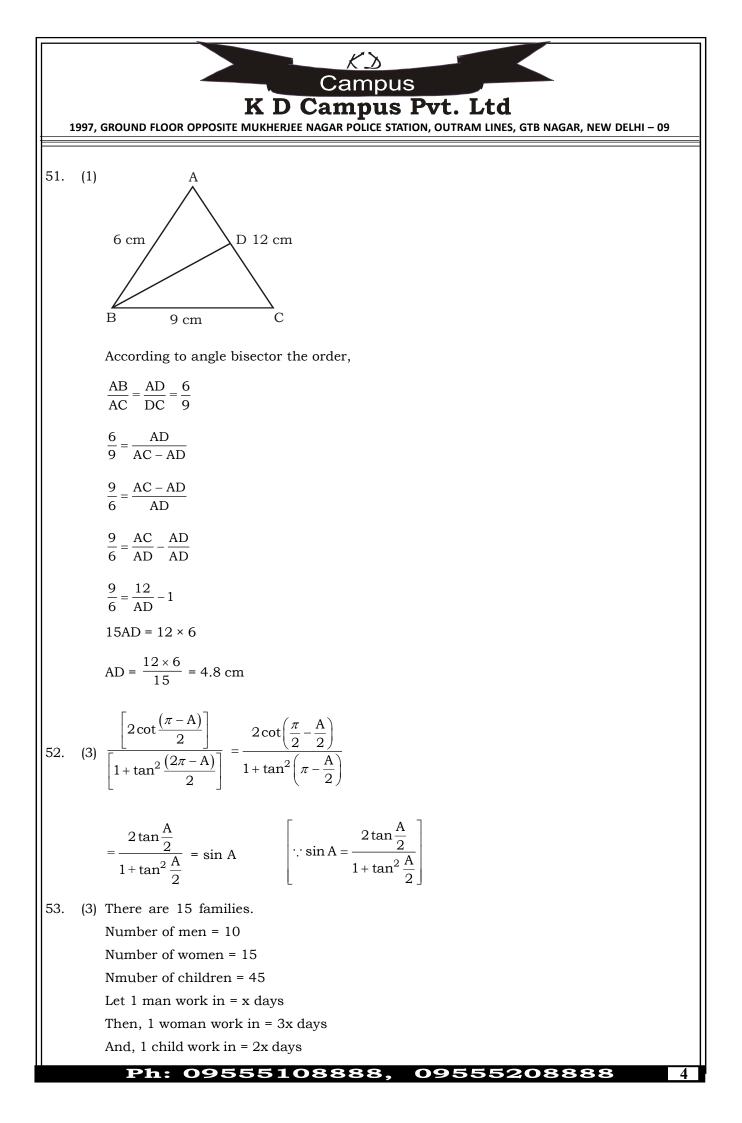
KN Campus K D Campus Pvt. Ltd 1997, GROUND FLOOR OPPOSITE MUKHERIEE NAGAR POLICE STATION, OUTRAM LINES, GTB NAGAR, NEW DELHI - 09 SSC MOCK TEST - 402 (SOLUTION) 1. (4) Calf is the offspring of Cattle, whereas Foal is oppspring of Horse. 2. (3) As,  $85 - (85 \div 5) = 68$ And,  $75 - (75 \div 5) = 60$ Similarly,  $45 - (45 \div 5) = 36$ 3. (2) Except Frog others are reptiles. 4. (3) (1)  $9^2 + 6^2 = 117$ (2)  $8^2 + 4^2 = 80$ (4)  $5^2 + 4^2 = 41$ (3)  $7^2 + 2^2 = 51 \neq 55$ 5. (4) As, Т R Ε А Ι L Ε R 9 12 5 18 5 20 1 18 (1+8)5(2+0)1 9 (1+2)5 (1+8)9 5 2 1 9 5 3 9 I Е В С Е А Ι Ι Similarly, S Ρ Е С Т С L Е А 5 3 5 19 16 3 20 1 12 (1+9)(1+6)5 3 (2+0)1 3 (1+2)5 5 3 3 3 5 10 7 2 1 С С J G Е С В А Е (1) 384 425 371 399 345 347 306 6. 269 -26 -13 -52 -78 (3) <sup>I</sup> C х Т 0 0 7. -6 -5 -3 8. (4) As,  $17^2 = 289$  $(17 + 4)^2 = 441$  $(21 + 4)^2 = 625$ Similarly,  $14^2 = 196$  $(14 + 4)^2 = 324$  $(18 + 4)^2 = 484$ 9. (1) r**o**mdk/so**m**dj/**t**o**m**di/uom**d**h 10. (3) Let Number be x. ATQ, x + 22 = 2(8 + x)x + 22 = 16 + 2x2x - x = 22 - 16x = 311. (1)12. (3) In the first column, (18 + 14) - (2 + 7) = 23In the second column, (15 + 36) - (2 + 3) = 46In the third column, (39 + 64) - (4 + 5) = 94Ph: 09555108888, 09555208888

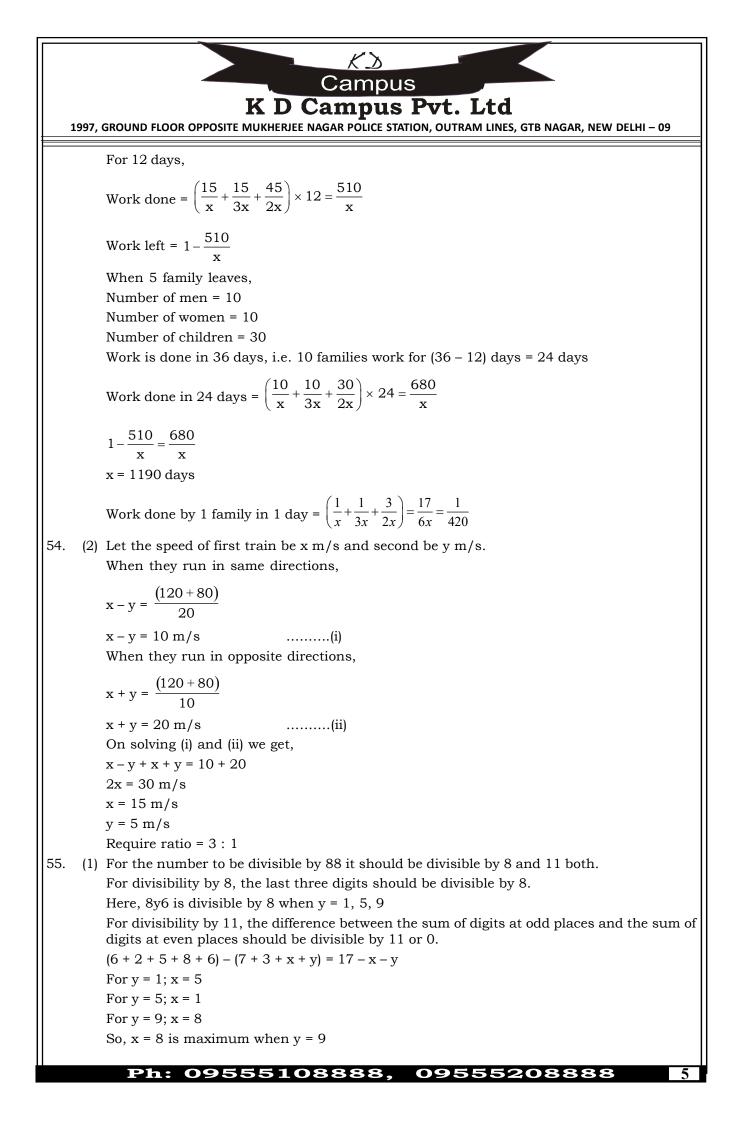


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26.	(2)	Sisodiya dynasty that ruled mewar did not surrender to emperor Akbar until and unless Jahangir defeated Rana Pratap's Son.						
27.	(2)	The Second Buddhist Council was held at Vaishali under King Kalasoka. The Third Council was held at Paliputra under king Ashoka. The Fourth Council was held at Kashmir under the patronage of King Kanishka.						
29.	(2)	The main vegetation types in Australia (in simplified terms) are forest, rainforest, grassland and desert. Different types of trees, shrubs and grasses grow within each of these vegetation types and are specially adapted to the soil, rainfall and temperature in each area.						
30.	(3)	The Peninsular rivers which do not join the Arabian Sea are Godavari and Krishna.						
31.	(1)	In India, an advocate general is a legal advisor to a state government. The post is created by the Constitution of India (vide Article 165) and corresponds to that of Attorney General for India at the union government level.						
32.	(4)	Violet has the shortest wavelength, at around 380 nanometers, and red has the longest wavelength, at around 700 nanometers.						
33.	(4)	Metals such as potassium and sodium react violently with cold water. The reaction is so violent and exothermic that the evolved hydrogen immediately catches fire.						
34.	(2)	Human insulin may cause side effects. Tell your doctor if any of these symptoms are se- vere or do not go away: redness, swelling, and itching at the injection site. changes in the feel of your skin, skin thickening (fat build-up), or a little depression in the skin (fat break- down)						
36.	(3)	In a victory for the Rishi Sunak government, the U.K. House of Lords passed the Illegal Migration Bill, a law that will make it the Home Secretary's "duty" to remove illegal mi- grants from the U.K. and significantly change existing protections for asylum seekers.						
37.	(3)	A software application used to locate and display Web pages. The two most popular browsers are Microsoft Internet Explorer and Netscape Navigator.						
38.	(1)	The United Nation was established just after the End Of World War 2. On June, 26, 1945 India was the among 50 countries to sign the UN charter. After signing the UN charter on October, 30, 1945 India joined the United Nations.						
40.	(4)	By India Today Information Desk: World No Tobacco Day is observed on May 31 every year to highlight the risk associated with the use of tobacco. In order to help reduce use and protect human health, the annual campaign raises awareness.						
41.	(4)	The mission is named after an Indian spiritual Guru, Ramakrishna Paramahamsa. The mission was founded by Ramakrishna's chief disciple, Swami Vivekananda on 1 May 1897.						
42.	(4)	The Moon's orbit around Earth is elliptical. The point of the orbit closest to Earth is called perigee, while the point farthest from Earth is known as apogee.						
44.	(3)	Article 395 repeals the Indian Independence Act, 1947, and the Government of India Act, 1935, together with all enactments amending or supplementing the latter Act, but not including the Abolition of Privy Council Jurisdiction Act, 1949.						
45.	(3)	Celsius and Fahrenheit are two temperature scales. The Fahrenheit and Celsius scales have one point at which they intersect. They are equal at $-40$ °C and $-40$ °F.						
46.	(3)	The electrolyte is ammonium chloride in the form of a paste next to the zinc anode.						
49.	(2)	The Asian Development Bank (ADB) on Wednesday, July 19, 2023, retained India's economic growth forecast at 6.4 per cent for the current financial year and 6.7 per cent for the next, saying robust domestic demand will continue to support the region's recovery.						

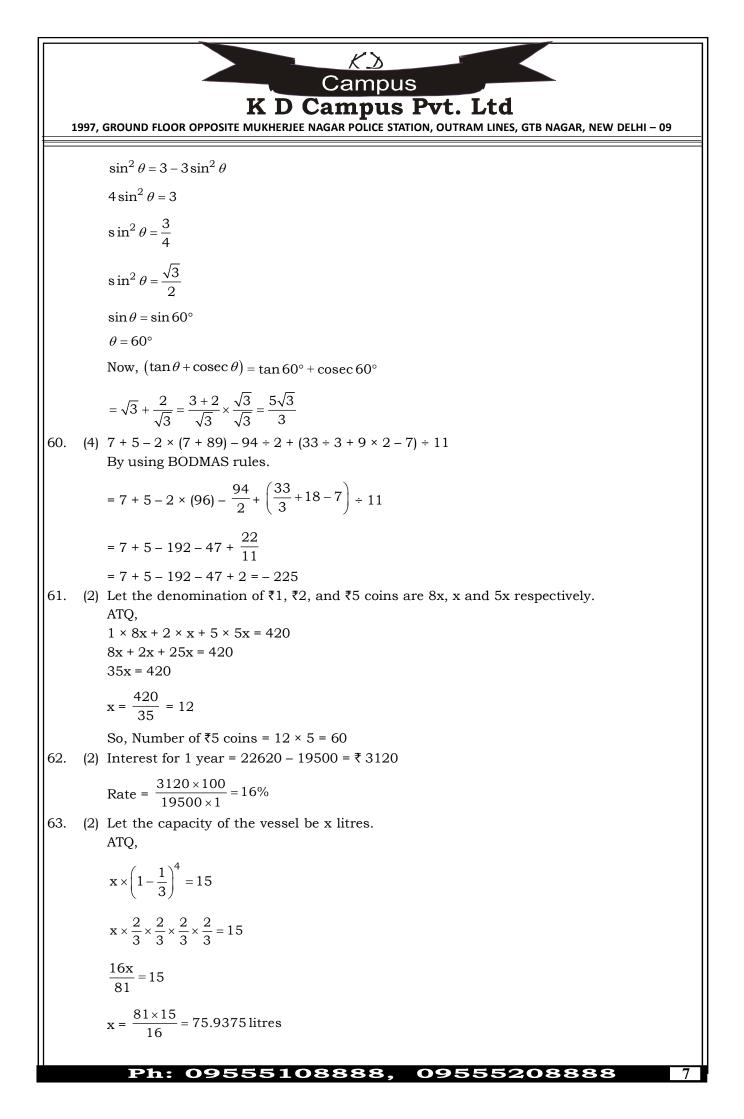
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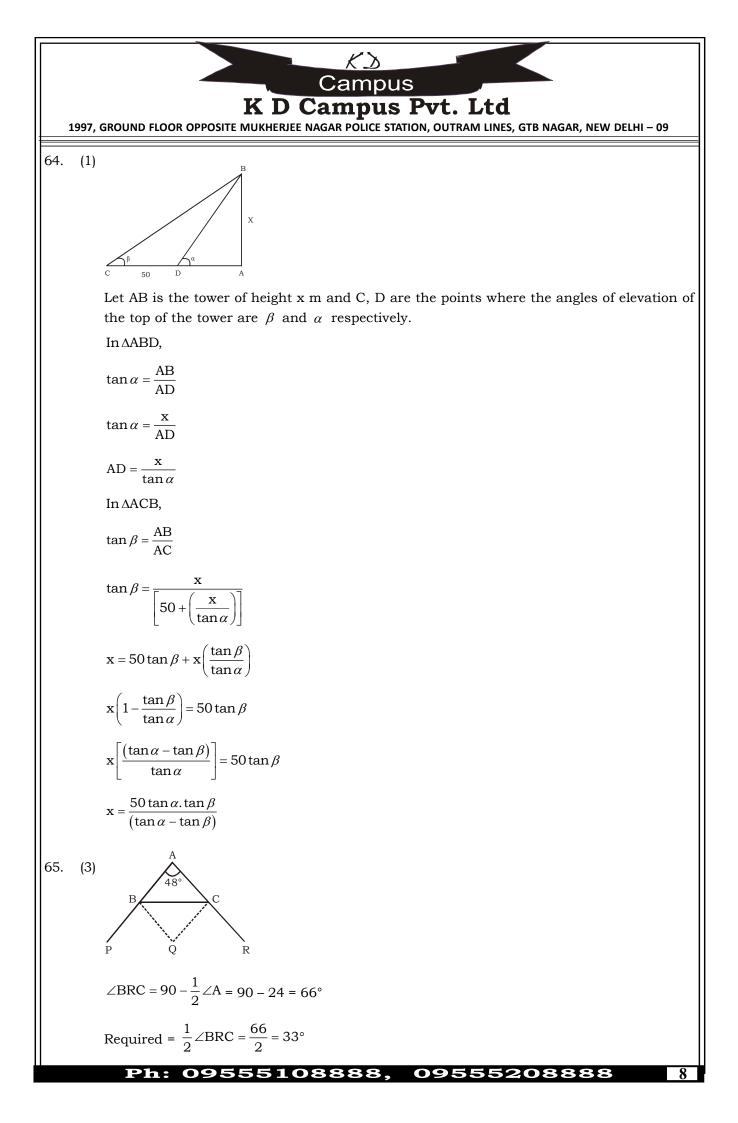
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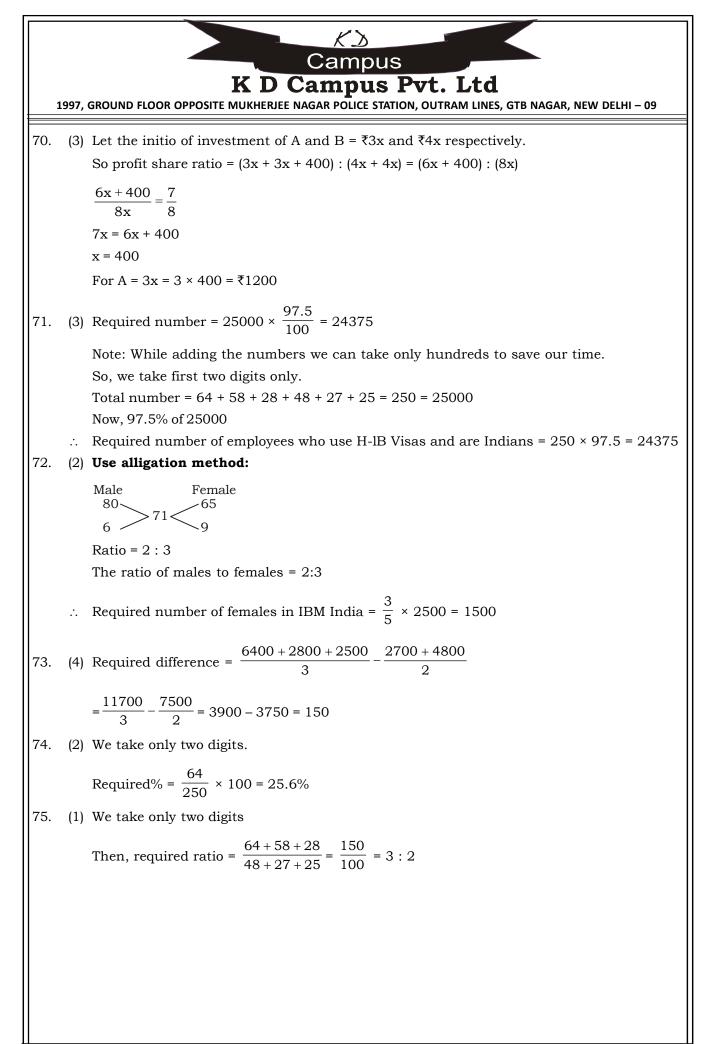


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56.		ATQ, x = Multiple of (10, 12, 15, 18) + 6				
		x = 180k + 6				
		For $k = 4$ , the given condition is satisfied. x = $180 \times 4 + 6 = 726$				
		The nearest square = $27 \times 27 = 729$				
		The least number should be added to x to make it a perfect square = $729 - 727 = 3$				
57.	(3)	Average of 35 numbers = 56				
		The average of the first 12 numbers = 52.5 and that of the last 24 numbers = 62.5 Eleventh number = Sum of first 12 numbers + Sum of last 24 numbers – Sum of 35 numbers = $12 \times 52.5 + 24 \times 62.5 - 35 \times 56$ = $630 + 1500 - 1960 = 170$				
		Now, sum of remaining numbers (excluding 11th number) = 1960 – 170 = 1790				
		Average of remaining 34 numbers = $\frac{1790}{34} = 52\frac{11}{17}$				
58.	(2)	Total revenue = 13200				
	( )	Let the ticket price of a water park before decrease in ticket price = $11x$ and number of daily visitors = $5y$				
		And, the ticket price of a water park after decrease in ticket price = $9x$ and number of daily visitors = $7y$				
		Now, according to question,				
		We know that:				
		Total revenue = price of a ticket × total number of units Total revenue before the decreases in ticket price = $(11x) \times 5x$				
		Total revenue before the decrease in ticket price = $(11x) \times 5y$ 13200 = 55xy				
		xy = 240				
		Required, total revenue after the decrease in ticket price = $(9x) \times 7y = 63xy$				
		= 63 × 240 = ₹15120				
59.	(4)	$\frac{\cos^2\theta}{\cot^2\theta + \sin^2\theta - 1} = 3$				
		$\frac{\cos^2\theta}{\frac{\cos^2\theta}{\sin^2\theta} - \left(1 - \sin^2\theta\right)} = 3$				
		$\frac{\cos^2\theta}{\frac{\cos^2\theta}{\sin^2\theta} - \cos^2\theta} = 3$				
		$\frac{1}{\frac{1}{\sin^2 \theta} - 1} = 3$				
		$\frac{\sin^2\theta}{1-\sin^2\theta} = 3$				
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KN Campus K D Campus Pvt. Ltd 1997, GROUND FLOOR OPPOSITE MUKHERJEE NAGAR POLICE STATION, OUTRAM LINES, GTB NAGAR, NEW DELHI - 09 66. (4) Let the total distance be x km. ATQ,  $\frac{x}{2 \times 11} + \frac{x}{2 \times 8} = \frac{19}{2}$  $\frac{x}{22} + \frac{x}{16} = \frac{19}{2}$  $\frac{8x+11x}{176} = \frac{19}{2}$  $x = \frac{176}{2} = 88 \text{ km}$ 67. (3) ATQ, 10 + x : 23 + x : : 15 + x : 33 + x $\frac{10+x}{23+x} = \frac{15+x}{33+x}$  $330 + 10x + 33x + x^2 = 345 + 23x + 15x + x^2$ 43x - 38x = 345 - 330 $x = \frac{15}{5} = 3$ Mean proportion fo (4x - 3)(8x + 1) $=\sqrt{(4x-3)(8x+1)} = \sqrt{(12-3)(24+1)}$  $=\sqrt{9 \times 25} = 15$ 68. (1) MP of TV = ₹13500 CP of dealer after discount =  $13500 \times \frac{80}{100} \times \frac{90}{100} = ₹9720$ Total CP after repairing cost = 9720 + 650 = ₹ 10370 SP of dealer =  $10370 \times \frac{125}{100}$  = ₹ 12962.50 69. (2) The given line is 2x - y = 6y = 2x - 6It's slope = 2The slope of the parallel line should also be 2. Hence, the required line m = 2 and (x, y) = (3, 2)Equation =  $\frac{y - y_1}{x \cdot x_1} = \frac{y_2 - y_1}{x_2 - x_1}$  $\frac{y-y_1}{x-x_1}=m$  $y - y_1 = m (x - x_1)$ (y-2) = 2(x-3)y - 2 = 2x - 6y = 2x - 4Ph: 09555108888, 09555208888



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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**

Bandit	a robber or outlaw belonging to a gang and	डाकू
	typically operating in an isolated or lawless area	
Battalion	a large body of troops ready for battle, especially	बटालियन
	an infantry unit forming part of a brigade	
	typically commanded by a lieutenant colonel	
Contemporary	living or occurring at the same time	समकालीन
Dacoit	a member of a band of armed robbers	डकैत
Determination	firmness of purpose; resoluteness	दृढ़ निश्चय
Devout	having or showing deep religious feeling	धार्मिक
	or commitment	
Instability	lack of stability; the state of being unstable	अस्थिरता
Motive	a reason for doing something, especially one that	प्रेरणा
	is hidden or not obvious	
Perseverance	persistence in doing something despite difficulty	दूढ़ता
	or delay in achieving success	
Persistence	firm or obstinate continuance in a course of action	हठ
	in spite of difficulty or opposition	
Pirate	a person who attacks and robs ships at sea	समुद्री डाकू
Pleased	feeling or showing pleasure and satisfaction,	प्रसन्न
	especially at an event or a situation	
Proficient	competent or skilled in doing or using something	प्रवीण
Profound	(of a state, quality, or emotion) very great or intense	गहन
Reluctant	unwilling and hesitant; disinclined	अनिच्छुक
Robber	a person who commits robbery	लूटेरा
Steady	firmly fixed, supported, or balanced; not	नियमित
	shaking or moving	
Utility	the state of being useful, profitable, or beneficial	उपयोगिता

Campus K D Campus Pvt. Ltd

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

KЭ

## SSC MOCK TEST - 402 (ANSWER KEY)

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

- 76. (4) Next to- beside, by, near, close to .
- 77. (2) This is a conditional sentence use 'were' instead of 'was' example- Sheetal always treats him as if he were a child.

Replace 'was' with 'were'.

- 90. (2) The correct spelling is 'Contemporary'.
- 91. (1) The correct spelling is 'Battalion'.