(5) None of these

		Quantitativ	e 1	Aptitude
	question mark (?) in the j 51. $88 \div 5 \div 4 = ?$		58.	5 6 16 57 244 ? (1) 1225 (2) 992 (3) 964 (4) 1245 (5) None of these
	(1) 65.4 (3) 70.4 (5) None of these 52. $\sqrt{1225} = ?$	(2) 8.4 #w#4educationobser	-52	
	(1) 25 (3) 55 (5) None of these	(2) 45 (4) 15	60.	848 422 208 100 45 ? (1) 16.5 (2) 18 (3) 22.5 (4) 24 (5) None of these
!	53. 36.15 + 71.58 + 6.33 + 2.77 (1) 126.87 (3) 116.77 (5) None of these	1 = ? (2) 108.67 (4) 131.57	61.	Which number should replace both the question marks in the following equation $\frac{?}{49} = \frac{16}{?}$
Į	<b>54.</b> $64^{3.1} \times 8^{4.3} = 8^{7}$ (1) 10.5 (3) 1.2	(2) 7.4 (4) 13.3		(1) 48 (2) 18 (3) 38 (4) 28 (5) None of these
	(5) None of these  55. 216 × 5 + 102 × 4 =? (1) 94228 (3) 1848	(2) 1488 (4) 92448	62.	What is 25% of 50% of $\frac{2}{3}$ rd of 630? (1) 36.5 (2) 52.5 (3) 45.5 (4) 68.5 (5) None of these
86		What should come in place of he following number series?	63.	The average of four consecutive odd numbers is 36. What is the smallest of these numbers? (1) 31 (2) 35 (3) 43 (4) 47 (5) None of these
	(1) 29 (2) 23	(3) 21	64.	What would be the compound interest accrued on an

years ? (1) ₹ 2351.86

(3) ₹ 2518.22

(5) None of these

amount of ₹ 7850 at the rate of 14 % per annum in two

(2) ₹ 2880.37

(4) ₹ 2290.23

- 65. Mithilesh started a business by investing ₹ 48000. After 7 months, Vidya joined him with a capital of ₹ 56000. At the end of the year of the total profit was ₹ 5885. What is the Vidya's share of the profit?
- (2) ₹ 1650
- (3) ₹ 1925
- (4) ₹ 3960
- (5) None of these
- 66. Three-fourth of one number is equal to five-sixth of another number. What is the respective ratio of the first number to the second number?

  - (3) 9:10
  - (4) Cannot be determined
  - (5) None of the above
- 67. Natasha decided to spend 45% of her salary on shopping. On completion of her shopping, she realised that she had spent only ₹ 11475, which was 60% of what she had decided to spent. How much is Natasha's salary?
  - (1) ₹ 29600
  - (2) ₹ 38800
  - (3) ₹ 42500
  - (4) Cannot be determined
  - (5) None of the above
- 68. In how many different way can the letters of the word 'RUDE' be arranged?
- (2) 48
- (4) 24
- 69. The ages of Bhakti and Neil are in the ratio of 8:7 respectively. After 6 yr, the Millwofthelicages will be SET 19:17. What is the difference in their ages?
- (2) 8 yr
- (4) 12 yr
- (5) None of these
- denominator is increased by 300%. The resultant fraction What was the original fraction?

- (5) None of these

Directions (Q. 71-75) What approximate values should come in place of the question mark (?) in the following questions?

(Note: You are not expected to calculate the exact value.)

- - (1) 205
- (2) 196
- (3) 165
- (4) 225
- (5) 298
- 72.  $11011 \div 101 \div 11 = ?$ 
  - (1) 10 (3) 6
- (2) 15
- (4) 25
- (5) 20

- **73.**  $927.999 \div 32.007 = ?$ 
  - (1) 21
- (2) 16
- (3) 38
- (4) 35
- (5) 29
- **74.** 8044.986 + 3250.005 + 149.996 = ?
  - (1) 15285 (4) 10555
- (2) 13625
- (5) 12500
- **75.**  $14.001 \times 26.999 \times 7.998 = ?$ 
  - (1) 4200
- (2) 3000

(3) 11445

- (4) 4000
- (5) 2500

Directions (Q. 76-80) In each of these questions two equations numbered I and II are given. You have to solve both the equations and

Give answer (1) if x < y

Give answer (2) if  $x \le y$ 

Give answer (3) if x > y

Give answer (4) if  $x \ge y$ 

Give answer (5) if x = y or the relationship cannot be established

**76.** I.  $x^2 - 10x + 24 = 0$ 

II. 
$$y^2 - 14y + 48 = 0$$

77. I.  $2x^2 - 13x + 20 = 0$ 

II. 
$$2y^2 - 7y + 6 = 0$$

78. I. 
$$x^2 - 5x + 6 = 0$$

II. 
$$y^2 - 9y + 20 = 0$$

79. I. 
$$4x^2 - 20x + 21 = 0$$
  
 $\Rightarrow r \lor er$   $= r \lor er$   $= 0$   $\Rightarrow r \lor er$   $= 0$ 

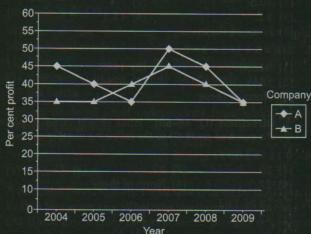
**80.** I. 
$$x^2 - 20x + 99 = 0$$

II. 
$$y^2 - 17y + 72 = 0$$

Directions (Q. 81–85) Study the following graph carefully to answer the questions.

## Per cent Profit Earned by Two Companies Over the Years

Income – Expenditure  $\times 100$ Per cent Profit = Expenditure



- 81. If the income of Company A in the year 2007 was ₹ 6.3 lakh, what was its expenditure in that year?
  - (1) ₹ 420000
- (3) ₹ 516500

- 82. If the amount of profit made by Company A in the year 2009 was ₹ 31.85 lakh, what was its expenditure in that year?
  - (1) ₹ 107 lakh
  - (2) ₹ 45 lakh

  - (4) Cannot be determined
- Company A over all the years together?
- (2) 33
- (3) 39
- (d) 48
- (5) 42
- 84. If in the year 2004, incomes of both Companies A and B were the same, what would be the respective ratio of their
  - (1) 31:33
- (2) 27:29
- (3) 16:23
- (4) Cannot be determined
- (5) None of these
- 85. What is the average amount of Profit earned by Company B

  - (4) Cannot be determined
  - (5) None of the above

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Directions (Q. 86-90) Study the following table carefully to answer the questions that follow.

## Number of Students in Six Classes of a School over the Years

len on	Class						
Year	V	VI	VII	VIII	IX	X	
2004	122	112	100	125	124	116	
2005	138	124	116	126	123	120	
2006	142	136	120	128	131	121	
2007	144	138	128	133	129	121	
2008	145	143	130	139	137	124	
2009	145	144	134	146	140	128	

- 86. What is the total number of students from all the classes together in the year 2005?

- 87. What is the average number of students in all the classes together in the year 2004? (Rounded off to the nearest
- (3) 144
- (4) 109

- 88. What is the per cent increase in the number of students in class VII in the year 2007 from the previous year? (Rounded off to two digit after decimal) (3) 6.67 (2) 5.48
- (4) 8.93
- (5) None of these
- 89. Number of students in class X in the year 2008 forms approximately what per cent of the total number of students in that class from all the years together?
  - (1) 9

(2) 31

(3) 11

(4) 26

- (5) 17
- 90. What is the respective ratio of total number of students in class V in the year 2006 and 2009 together to the total number of students in class VI from the same year?
- (3) 37:39
- (5) None of these

Directions (Q.91-95) Study the table carefully to answer the questions that follow

## **Total Number of Students Studying in Different Disciplines** in a College and

(of These) Percentage of Females and Males

Discipline	Total Number of Students	Percentage of Females	Percentage of Males		
Medical	5450	54	46		
Engineering	6500	38	62		
Law	2540	35	65		
Teaching com/	foru <sub>3250</sub>	74	26		
Banking	2200	35	65		
Management	4500	58	42		

- 91. What is the total number of males studying in the management and banking disciplines together?
  - (1) 3180
- (3) 3460
- (4) 3320
- (5) None of these
- 92. What is the respective ratio of the number of females studying in the management and medical disciplines together to the number of males studying in the same disciplines together?
  - (1) 1668:8527
- (2) 5553:4397
- (3) 8527:1668
- (5) None of these
- 93. What is the total number of students studying in all the disciplines together ?
  - (1) 25360
- (2) 22580
- (3) 24440
- (4) 28620
- (5) None of these
- 94. The total number of students studying in the teaching discipline forms approximately what per cent of the total number of students studying in the law discipline?
- (2) 78
- (4) 67

- 95. What is the respective ratio of the number of females studying in engineering discipline to the number of females studying in the teaching discipline?
  - (1) 38:37
- (2) 45:43
- (3) 37:38
- (4) 43:45
- (5) None of these

Directions (Q.96-100) Study the following graph carefully to answer the questions that follow.

Number of Employees Working in Five Different Departments of an Organization and the Number of Males from the Same



- 96. Number of females from the HR department forms approximately what per cent of the total number of employees from that department?
- (2) 32
- (5) 51
- (4) 38
- 97. What is the total number of employees from all the departments together?

  - (2) 18640
  - (3) 20160
  - (4) 17620
  - (5) None of the above
- 98. What is the respective ratio of the number of females and the number of males from the Marketing department?

- (4) 6:7
- 99. What is the number of females working in the IT department?
- (2) 2750
- (3) 2250
- (4) 2500
- (5) None of these
- 100. The number of males in the Production department forms what per cent of the total number of employees from that department? (Rounded off to two digits after decimal)
- (3) 62.25
- (4) 68.42
- (5) None of these