

## BANK OF BARODA (QUANTITATIVE APTITUDE) MEMORY BASED PAPER

## Directions (51 – 55) : Study the information carefully and answer the following questions.

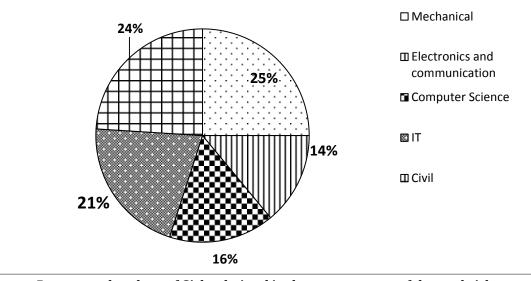
A total of 1650 employees are working in a company in different departments. The ratio of male employees to female employees in the organisation is 86 : 79. There are total 5 departments in the company i.e. Product Devlopment, Sales and marketing, R& D and reinvestment, 'Finance' and HR. Total 198 males work in "Product Devlopment department". 18% employees works in Sales and marketing department, in which male to female ratio is 5 : 4. In Finance department, 77 males are working and the number of females in this department is  $\frac{5}{7}$  of the number of males. The number of males in Sales and marketing department is equal to number of females in Product Devlopment department. The number of males of Finance department is half of the number of males in HR department. Male to female ratio in R& D and reinvestment department is 14 : 19.

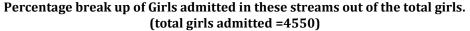
- 51. No. of males in R& D and reinvestment department is now much more than females in Product Devlopment department? (a) 99 (b) 91
  - (c) 109 (d) 105 (e) None of these
- 52. Females in R& D and reinvestment department is what percent of total number of females in the company (approximate)? (a) 44.7% (b) 45.7% (e) 38.9%
  - (d) 49.2% (c) 48.9%
- **53.** No. of Females in Finance department is what percent less than the no. of females in Product Devlopment department? (b)  $66\frac{2}{1}$ (a)33<del>1</del>
  - (c) (d) 70 (e) None of these 61
- 54. What is the difference between no. of male employees of Product Devlopment, Sales and marketing and HR department together and no. of females of Product Devlopment, Finance and R& D and reinvestment department together? (a) 54 (b) 64
  - (c) 35 (d) 96 (e) None of thes
- **55.** If the  $\frac{5}{12}$  of the females of the Sales and marketing department are shifted in HR department. Then males in HR department is what times of no. of females in the same department. (round off to 2 decimal places).
  - (a) 1.07 (b) 1.17 (d) 1.37
  - (c) 1.27
  - (e) 1.32

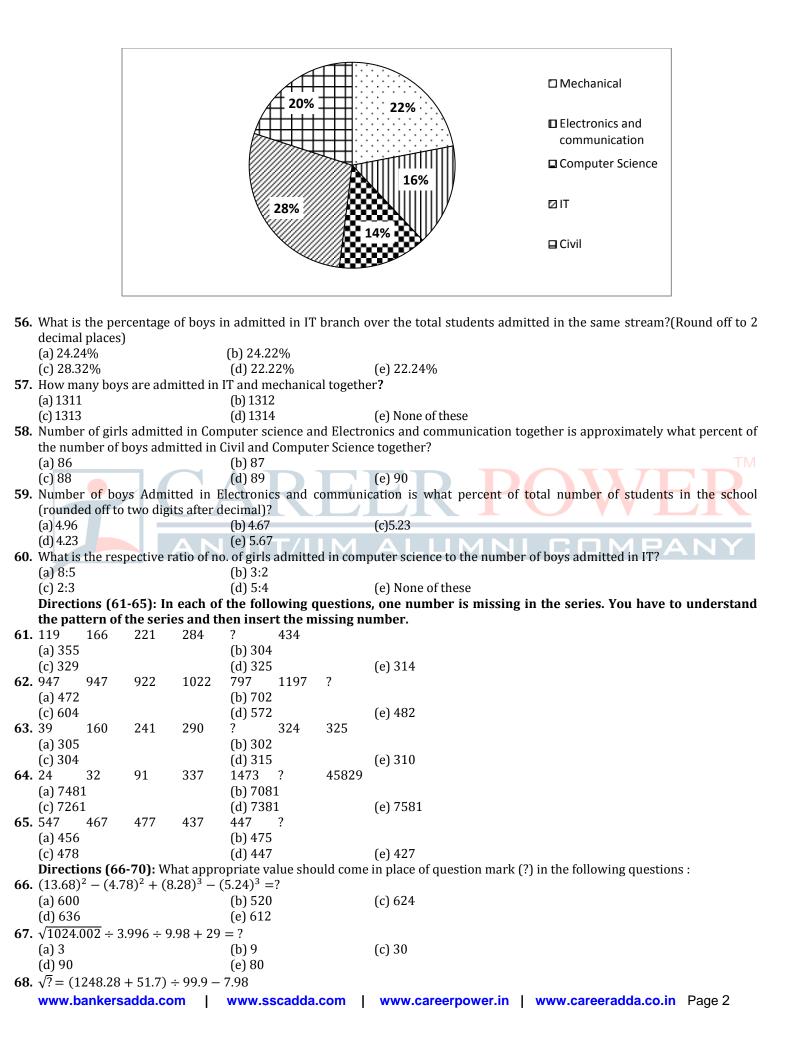
## Directions (56-60): Study the Pie- Chart carefully and answer the following Questions.

## Percentage breakup of students admitted in different Streams in an engineering college

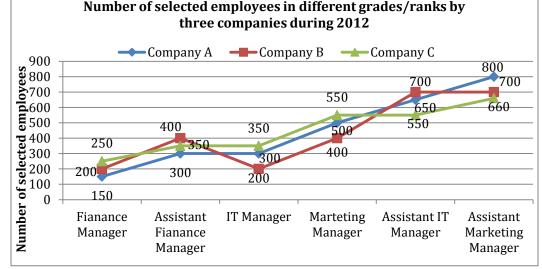
(total students admitted = 7800)







(a) 49	(b) 81		(0	c) 64				
(d) 16	(e) 25							
<b>69.</b> $(4444 \div 40) + (645 \div 25) + (3991 \div 26) = ?$								
(a) 280.4	(b) 290.4			(c) 295.4				
(d) 285.4	(e) None of these							
<b>70.</b> $\sqrt{33124} \times \sqrt{2601} - (83)^2 = (?)^2 + (37)^2$								
(a) 37		) 33	(0	c) 34				
(d) 28		) None of th						
<b>Directions (71-75):</b> Study the following table carefully to answer the questions that follow:								
Number of Students studying in Six Different Colleges over the years								
	College	D	0	D	C C	т	T	
	Year	Р	Q	R	S	Т	U	
	2004	2500	2250	2450	2150	2020	2300	
	2005	2040	2300	2400	2200	2090	2120	
	2006	2100	2150	2330	2250	2180	2260	
	2007	2280	2600	2260	2340	2250	2490	
	2008	2540	2540	2120	2380	2310	2520	
	2009	2320	240	2500	2480	2400	2440	
<b>71.</b> What is the total number of students from all the colleges together in the year 2005?								
(a) 10350 (b) 13150 (c) 15310								
(d) 11350								
<b>72.</b> What is the per cent increase in the number of students in College T in the year 2007 from the previous year? (rounded off to								
two digits after decimal)								
(a) 8.33	(b) 5.18 (c) 6.63							
(d) 3.21	(e) None of these							
<b>73.</b> The number of students in college P in the year 2008 forms approximately what per cent of the total number of students in <b>73.</b>								
that college in the years together?								
(a) 11 🛑	(b	) 31	((	c) 18				
(d) 26		) 23						
74. What is the ratio of the total number of students in College S in the year 2006 and 2009 together to the total number of								
students in college U in the same years?								
(a) 473 : 470		) 470 : 473		c) 371 : 390	MN			PANY
(d) 390 : 371 (e) None of these								
75. What is the average number of students in all the colleges together in the year 2004? (rounded off to the nearest integer)								
(a) 2208	(b) 2196 (c) 2144							
(d) 2324								
<b>Directions (77-80):</b> Study the following graph carefully to answer the questions given below:								
	Numh	er of selec	ted employ	ees in differ	ent grades	s/ranks h	v	



76. What is the average number of selected employees by Company A in all grades taken together? (a) 450 (b) 460 (c) 475

(d) 375 (e) None of these

77. What is the ratio of selected employees for the post of Assistant IT Managers by Companies A, B and C respectively? (a) 8 : 10 : 11 (b) 10 : 8 : 11 (c) 11:10:8 www.bankersadda.com T

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(e) None of these (d) 10:11:8

- 78. By what per cent is the number of selected employees for Finance Managers by Company C more than that of the selected employees by Company B for the same post?
  - (a) 35% (b) 30% (c) 25%
  - (d) 40% (e) None of these
- 79. What is the average number of selected employees for the post of Assistant Marketing Managers by all companies taken together? (c) 620
  - (a) 570 (b) 520(d) 720

(e) None of these 80. What is the ratio of selected employees for IT Managers by all Companies A, B and C?

- (a) 6:4:7 (b) 5:3:7
- (d) 8:7:6 (e) None of these
- **81.** A contractor undertook to complete a project in 90 days and employed 60 men on it. After 60 days, he found that  $\frac{3}{4}$  of the work has already been completed. How many men can he discharge so that the project may be completed exactly on time? (b) 20 (a) 40

(c) 4 : 7 : 9

- (c) 30 (d) 15 (e) None of these
- 82. A student finds the average of ten 2-digit numbers. While copying numbers, by mistake, he writes one number with its digits interchaged. As a result his answer is 1.8 less than the correct answer. The diference of the digits of the number, in which he made mistake, is (c) 4
  - (a) 2 (d) 6
- (b) 3 (e) None of these
- **83.** A and B entered into partnership with Rs 700 and Rs 600 respectively. After 3 months A withdrew  $\frac{2}{7}$  of his stock but after 3
  - months more he put back  $\frac{3}{5}$  of what he had withdrawn. The profits at the end of the year are Rs 726, how much of this should A receive?
    - (a) Rs 633
    - (d) Rs 366
- (c) Rs 663 (b) Rs 336 (e) None of these
- 84. A man deposited 14% of the initial amount to his locker. And again after some time he deposited 45% of the increased amount. Now the amount becomes Rs 16530. How much was the initial amount? (a) Rs 10500 (b) Rs 10000
- (c) Rs 9500 (d) Rs 9000 (e) None of these **85.** An article is sold at  $12\frac{1}{2}$ % profit. If its CP and SP are increased by Rs. 10 and Rs. 2 respectively, the percentage of profit

decreases by  $7\frac{1}{2}$ %. Find the cost price.

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(a) Rs. $116\frac{2}{3}$	(b) Rs. $114\frac{1}{3}$	
(c) Rs. $113\frac{1}{3}$	(d) Rs. 113 $\frac{2}{3}$	

- (c) Rs.  $113\frac{1}{2}$
- 86. Krishna and Nandan started a joint firm. Kishan's investment was thrice the investment of Nandan and the period of his investment was two times the period of investment of Nandan. Nandan got Rs 4000 as profit for his investment. Their total profit if the distribution of profit is directly proportional to the period and amount, is -

(e) none of these

- (a) Rs 24000 (b) Rs 16000
- (c) Rs 28000 (d) Rs 20000
- (e) None of these 87. The population of a town is 32000. It increase by 15% during the first year. During the second year, it decrease by 20% and increased by 5% during the third year. What is the population after 3 years?
  - (a) 38600 (b) 39800 (c) 36800
    - (d) 38900 (e) None of these
- 88. In an examination the percentage of students qualified to the number of students appeared from school 'A' is 60%. In school 'B' the number of students appeared is 30% more than the students appeared from school 'A' and the number of students qualified from school 'B' is 60% more than the students qualified from school 'A'. What is the percentage of students qualified to the number of students appeared from school 'B'?
  - (a) 70% (b) 75%
  - (c)  $73\frac{11}{13}$ (d)  $71\frac{11}{13}\%$ (e) None of these
- **89.** There were 36 students in a hostel. If the number of students increases by 4, the expenses of the mess increase by Rs 32 per day while the average expenditure per head diminishes by Re 1. Find the original expenditure of the mess.
  - (a) Rs 640 (b) Rs 648
  - (c) Rs 650 (d) Rs 658 (e) None of these
- 90. Parameshwaran invested an amount of Rs 12000 at the simple interest rate of 10 per cent annum and another amount at the simple interest rate of 20 per cent per annum. The total interest earned at the end of one year on the total amount invested became 14 per cent per annum. Find the total amount invested.

completed and B left 2 d (a) 8 <sup>2</sup> / <sub>3</sub> days		(e) None of these 10, 12 and 15 days respectively. A left the work 5 days before the work was Number of days required to complete the whole work was:					
(c) $6\frac{2}{3}$ days	(d) 7 days	(e) None of these					
	-	ation carefully to answer the questions that follow :					
A box contains 2 blue caps, 4	red caps, 5 green ca	ips and 1 yellow cap.					
		robability that it is either blue or yellow ?					
(a) $\frac{2}{9}$	(b) $\frac{1}{4}$						
(c) $\frac{3}{8}$	$(d)\frac{\frac{4}{6}}{11}$	(e) None of these					
8	<b>93.</b> If two caps are picked at random, what is the probability that at least one is red ?						
(a) $\frac{1}{3}$	(b) $\frac{16}{21}$						
(c) $\frac{\frac{19}{19}}{22}$	$(d)\frac{\frac{21}{7}}{10}$	(e) None of these					
33	19	ne probability that two are red and one is green ?					
(a) $\frac{9}{22}$	(b) $\frac{6}{19}$						
$(c)\frac{1}{c}$	(d) $\frac{3}{22}$	(e) None of these					
0	22	e selling price whereas Chandan calculates his profit on the cost price. They					
		35. If the selling price of both of them are the same, and Pankaj gets 30%					
profit and Chandan gets	25% profit, then fin	d their selling price.					
(a) Rs. 1250	(b) Rs. 1150						
(c) Rs. 1450	(d) Rs. 1350	(e) none of these					
<b>Directions (96-100):</b> Solve the 2 equations given below and compare them and give answer (a) if $x > y$ (b) if $x < y$ (c) if $x \ge y$ (d) if $x \le y$							
(e) if $x = y$ or no relation car							
<b>96.</b> I. $\frac{x^3 - 13x + 12}{(x-1)} = 0$		II. $\frac{y^3 + 5y^2 - 2y - 24}{(y-2)} = 0$					
<b>97.</b> I. $3(2x^2 - 5x + 4) - 2(2x^2 - 5x + 4)$	$x^2 + 13x - 4) = 0$	$II. y \left(2y - 7 - \frac{3}{y}\right) - 4(y^2 + 3y + 8) = 0$					
98. I. $x = 3y + 24$ II. $y = 2x + 11$							
<b>90.</b> I. $x^2 = 3y + 24$ <b>99.</b> I. $6x^2 + 31x + 35 = 0$		$II. 2y^2 + 3y + 1 = 0$					
<b>100.</b> I. $2x^2 - (4 + \sqrt{13})x + 2^2$	$\sqrt{13} = 0$	$\mathbf{II.} \ 10y^2 - (18 + 5\sqrt{13})y + 9\sqrt{13} = 0$					
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