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wer a		PARTA					
1	In a certain office a letter is typed by A in 4 minutes. The same letter is typed by B, C and D in 5, 6, 10 minutes respectively. What is the average time taken in completing one letter? How many letters do you expect to be typed in one day comprising of 12 working hours?						
2	The coefficient of rank correlation of the marks obtained by 10 students in two subjects was found to be 0.5. it was then detected that the difference in ranks in the two subjects obtained by one of the student was wrongly taken as 3 in the place of 7. What should be the correct ranks correlation coefficient?						
/3	State the nature of the following correlations (positive, negative or no correlation): (i) Sale of woollen garments and the day temperature; (ii) The colour of the saree and the intelligence of the lady who wears it.						
A	If $\rho > 0$ then what can you say about Regression coefficients Explain it.						
	Define Regression lines.						
5	Define Regression lines.						
5	Answer any Four question				x 10 = 40marks		
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5	Answer any Four question Find the median for the form Number of days absent Less than 5 Less than 10 Less than 15 Less than 20 Less than 25 Less than 30 Less than 35 Less than 40 Less than 45	Number of 29 224 465 582 634 644 650 653 655 00 families i 60-79 8	uency stude	distribu	rica		
6	Find the median for the fo Number of days absent Less than 5 Less than 10 Less than 15 Less than 20 Less than 25 Less than 30 Less than 35 Less than 40 Less than 45 (b) The expenditure of 10 Expenditure 40-59	Number of 29 224 465 582 634 644 650 653 655 60-79 86 ? 50	s gives	n below 100-1	rica 7 19 120-139 50		

A factory produces two types of electric bulbs A and B. in an experiment relating to their life, following results were obtained

T de courts	No of	
Length of life (in hours)		
	A	В
500-700	5	4
700-900	11	30
900-1100	26	12
1100-1300	10	8
1300-1500	8	6

Compare the variability of the two verities using the coefficient of variation.

In a laboratory experiment on correlation research study, the equation of two regression line were found to be 2x - y + 1 = 0 and 3x - 2y + 7 = 0. Find the means, Correlation.

Find Quartiles, Quartile deviation, coefficient of quartile deviation

Mid Value	Frequency
21	18
27	22
33	40
39	50
45 .	38
51	12
57	4

An investigation was conducted by a company on the value of educational and aptitude tests as assessment methods for recruiting employees. It is the present practice of the company to give recruits such tests when they apply for the posts. The following data give the educational and aptitude test scores, together with assessment score by the personnel department of their ability one year after joining the company. I is low score and 20 is a high score

is the company. I is low score and 20 is a high score						
Employee	Educational Test	Aptitude	Assessment by officer			
Α	9	17	12			
В	10	14	14			
С	15	12	16			
D	14	13	15			
E	16	10	17			
F	11	15	10			
G	12	12	11			
Н	17	16	18			

Then find

(i) Rank of Each set of data

(b) Calculate 2 appropriate rank correlation coefficients

(iii) Write brief report on your findings.

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