

2017**STATISTICS****[Gen. Elective]****(CBCS)****(Practical)****PAPER – GE1P***Full Marks : 20**Time : 2 hours***Answer all questions***The figures in the right hand margin indicate marks*

1. The frequency distribution of expenditure of 1000 families is given below :

Expenditures(Rs) :	40-59	60-79	80-99	100-119	120-139
No. of families :	50	—	500	—	50

The mean and median of the distribution are both Rs.87.50. Determine the missing frequencies. 5

2. The following table shows the result of vaccination against small pox in a survey. 5

	Vaccinated	Not Vaccinated
Attacked with small pox	36	330
Not attacked with small pox	305	810

can vaccination be regarded as a preventive measure of small pox from the above data ?

3. If the equations of two regression lines obtained in a correlation analysis are $3x + 12y = 19$ and $3y + 9x = 46$, determine which one of these is the regression equation of y on x and which one is the regression equation of x on y . Find the means, correlation coefficient and ratio of variances of x and y . 5
4. Laboratory Note Book. 2
5. Viva-voce. 3
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