S.S.M.S

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B.Sc Computer Science Department

F.Y.B.Sc (Computer Science) Internal Examination, Feb-2017

Marks: 20 Sub: Statistical Methods-I Time duration: 1 hour

(Attempt any 5 questions of the following questions)

Q1. Define correlation and find correlation coefficient for the following data Marks 04

X	6	2	5	4	9	
Y	9	5	8	8	12	

Marks 04 Q2. Derive the equation of line of regression of Y on X. Q3. Explain the procedure of fitting of second degree curve $y = a + bx + cx^2$

Q4 Fit a curve of the type $y = a.b^x$ for the following data

Year (X)	1991	1992	1993	1994	1995
Productions (Y)	10	40	135	320	480

Q5.For 10 observations on price (X) and supply (Y) of a commodity, the following data was obtained: $\Sigma X=130$, $\Sigma Y=220$, $\Sigma X^2=2288$, $\Sigma Y^2=5506$, $\Sigma XY=3467$. Find the value of correlation Marks 04 coefficient. Also obtain the equation of regression line of price on supply

Q6. State the type of correlation for the following :

Weight and blood pressure of person Supply and price of vegetables ii) i)

iii). Sale of ice-cream and day temperature. iv) Sale of woollen garments and temperature.

Marks 04 Q7. What is scatter diagram? Explain following types with diagrams:

i) Perfect negative correlation ii) Strong positive correlation

Marks 04

Marks 04

Marks 04