B.B.A. (2010 Course) Sem- III : SUMMER - 2019

SUBJECT : BUSINESS STATISTICS – II

Day : Friday   Time :   02.00 PM TO 05.00 PM
Date : 03/05/2019   **S-2019-2010**   Max. Marks : 70

N. B. :
1) **Q. No. 1** is **COMPULSORY**.
2) Attempt **ANY FOUR** questions from **Q. No. 2** to **Q. No. 7**.
3) Figures to the right indicate **FULL** marks.
4) Use of non-programmable calculator is **ALLOWED**.

Q. 1 Define probability. Explain conditional probability with the help of proper   **(14)**
examples.

Q. 2 Calculate coefficient of correlation by Karl Pearson's method and Spearman's   **(14)**
rank correlation coefficient.

X	5	8	12	15	16
Y	11	13	20	19	17

Q. 3 In a correlation study, following values are obtained: **(14)**

	x	y
Mean	40	45
Standard deviation	10	9
Coefficient of correlation	0.5	

Find two regression line equations.

Q. 4 The incidence of occupational disease in an industry is such that the workmen   **(14)**
have a 20 % chance suffering from it. What is the probability that out of 6
workmen 4 or more will suffer from the disease?

Q. 5 In sample survey 2500 students 1000 liked economics, 1750 liked statistics   **(14)**
and 600 liked both economics and statistics. Find whether liking in two
subjects economics and statistics is associated or not.

Q. 6 Explain decision making under certainty and uncertainty with the help of   **(14)**
proper examples.

Q. 7 Write short notes on **ANY TWO** of the following: **(14)**

a) Association of Attributes

b) Sample space

c) Applications of correlation analysis

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