S.D.E.

M.B.A. (Gen.) / M.B.A.(HR) Sem-I (CBCS - 2018 Course) : SUMMER - 2019

SUBJECT : STATISTICAL TECHNIQUES

Day : Wednesday
Date : 08/05/2019

S-2019-4991

Time : 10.00 AM TO 1.00 PM
Max. Marks : 70

N.B.

1) Attempt any **FOUR** questions from Section – I and any **TWO** questions from Section – II.
2) Figures to the right indicate **FULL** marks.
3) Answers to both the sections should be written in SAME answer book.

SECTION – I

Q.1 Draw ogive curves from the following data: **(10)**

Marks	0–10	10–20	20–30	30–40	40–50	50–60	60–70	70–80	80–90	90–100
No. of Students	05	15	23	27	26	18	07	05	02	12

Q.2 Find mean and mode from the following: **(10)**

Marks	11	12	13	14	15	16	17	18	19	20
No. of Students	7	27	28	47	85	17	18	06	05	02

Q.3 What is correlation? Explain various types of correlation. **(10)**

Q.4 Explain business applications of regression analysis with example. **(10)**

Q.5 Three cards are drawn from a well shuffled pack of 52 playing cards. **(10)**

a) What is the probability that all the three cards drawn are number cards?
b) What is the probability that all the three cards drawn are picture cards?

Q.6 Write short notes on any **TWO:** **(10)**

a) Coefficient of variation
b) Decision making process
c) Yule's coefficient of association

SECTION – II

Q.7 Find Karl Pearson's coefficient of correlation from the following data: **(15)**

X	15	20	25	30	35	40	45	50	55	60
Y	31	42	53	61	72	81	92	102	113	122

Q.8 Explain the following distributions in detail: **(15)**

a) Binomial distribution
b) Poisson Distribution

Q.9 From the following information, you are required to find: **(15)**

a) Regression coefficients b_{xy} and b_{yx}
b) Mean values of x and y

$12x + 32y = 138$

$13x + 24y = 98$

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