

M.C.A. Sem - III (Choice Based Credit System 2011 & 2012 Course) :
SUMMER - 2019

SUBJECT: EMPIRICAL METHODS FOR RESEARCHING INFORMATION SYSTEMS

Day : Thursday
 Date : 25/04/2019

S-2019-2172

Time 02.00 PM TO 05.00 PM
 Max. Marks : 100

N.B.:

- 1) Attempt any **FOUR** questions out of **SIX** in Section – I and any **TWO** questions out of **THREE** in section – II.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in **SAME** answer book.
- 4) Use of non-programmable **CALCULATOR** is allowed.

SECTION-I

- Q.1** List 6 P's of research. Describe any two of your choice. (15)
- Q.2** Explain 'right of participant' in the research. Also explain responsibilities of an Ethical research. (15)
- Q.3** What are different data gathering methods? Explain in details interview as a data gathering method. (15)
- Q.4** What is hypothesis? Explain different types of hypothesis with suitable examples. (15)
- Q.5** Explain following significance tests. (15)
- i) Test for proportion
 - ii) Correlation and Regression
- Q.6** Write short notes on **ANY THREE** (15)
- i) Ethnography type of research
 - ii) Literature review
 - iii) Quantitative data analysis
 - iv) Action research.

SECTION-II

- Q.7** Calculate mean, median, mode for the following data: (20)

Class	20-40	40-60	60-80	80-100	100-120	120-140	140-160	160-180	180-200
Frequency	6	9	11	14	20	15	10	8	7

- Q.8** Following data shows age of cars of certain make and annual maintenances costs. Obtain the regression equation for costs related to age. (20)

Age of cars(Years)	2	4	6	7	8	10	12
Annual maintenance costs	1600	1500	1800	1900	1700	2100	2000

Find the approximate cost of maintaining a 3 years old car of the same make.

- Q.9 a)** Calculate correlation coefficient between X and Y from the following data. (10)
- $N=25$ $\sum X=125$ $\sum X^2=650$ $\sum Y=100$ $\sum Y^2=960$ $\sum XY=508$
- b)** A sample of 400 male students is found to have mean height 67.47 inches. Can it be reasonably regarded as a sample from a large population with mean height 67.39 inches and standard deviation 1.30 inches? Test at 5% level of significance. (10)

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