

**INTEGRATED MASTER OF COMPUTER APPLICATIONS (CHOICE BASED  
CREDIT SYSTEM)  
I.M.C.A. Sem-VII : WINTER : 2021  
SUBJECT: EMPIRICAL METHODS FOR RESEARCHING INFORMATION  
SYSTEMS**

**Day :** Thursday  
**Date :** 27-01-2022

**W-10087-2021**

**Time :** 10:00 AM-01:00 PM  
**Max. Marks:** 100

**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) Answer to both the sections should be written in the **SAME** answer book.

**SECTION-I**

- Q.1** Briefly describe the different steps involved in a research process. (15)
- Q.2** Write short note on "Experience Survey" explaining fully its utility in exploratory research studies. (15)
- Q.3** Explain in details of questionnaire design with example. (15)
- Q.4** What are the characteristics of a good sample? (15)
- Q.5** Write a note on Triangulation. Also discuss their types. (15)
- Q.6** Write short notes on (**ANY TWO**) : (15)
- a) Interviewing Techniques
  - b) Type-I and Types -II errors
  - c) Action Research

**SECTION-II**

- Q.7** The frequency distribution of weight in grams of mangoes of a given variety is given below. Calculate the mean, mode, median. (20)

Weight (Mkg):	410-419	420-429	430-439	440-449	450-459	460-469	470-479
No. of students:	71	75	69	97	70	91	35

- Q.8** Calculate the coefficient of correlation for the ages husband and wives. (20)

Age of Husband (years):	23	27	28	29	30	31	33	35	36	39
Age of wife (years):	18	22	23	24	25	26	28	29	30	32

- Q.9** A die is rolled 100 times with the following distribution: (20)

Number:	1	2	3	4	5	6
Observed frequency	17	14	20	17	17	15

At the 1% level of significance, determine whether die is true?

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