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AA—59—2019

FACULTY OF SCIENCE

B.Sc. (CS) (Third Year) (Sixth Semester) EXAMINATION

OCTOBER/NOVEMBER, 2019

(Revised Pattern)

COMPUTER SCIENCE

(Research Methodology)

(Tuesday, 19-11-2019)   **Time : 10.00 a.m. to 1.00 p.m.**

Time—3 Hours   *Maximum Marks—80*

N.B. :—   (*i*)   Attempt *all* questions.

      (*ii*)   Assume suitable data, if necessary.

1. Attempt the following (any *four*) :   20

   (*a*)   Discuss the reasons for doing research.

   (*b*)   What is conceptual Framework ? Explain.

   (*c*)   Explain system development life-cycle.

   (*d*)   Discuss the objectives of literature review.

   (*e*)   Explain the concept of 'response rate' and 'Non-responses' in surveys.

   (*f*)   Discuss the advantages and disadvantages of case studies.

2.   (*a*)   Explain the sources of research ideas.   8

   (*b*)   Explain the research strategies.   7

Or

   (*c*)   Explain the process of conducting a literature review.   8

   (*d*)   Explain probability sampling techniques.   7

P.T.O.

3. (*a*) Explain the various ways of controlling variables in experiments. 8

(*b*) Explain the types of case studies. 7

Or

(*c*) Discuss the things which should be observed and measured in experiments. 8

(*d*) Explain selection of cases in case study. 7

4. (*a*) Explain the concept of external validity in experiments. 8

(*b*) Explain how to write a critical review. 7

Or

(*c*) Explain different kinds of experimental designs. 8

(*d*) Explain advantages and disadvantages of surveys. 7

5. Write short notes on (any *three*) : 15

(*a*) Data Analysis

(*b*) Plagiarism

(*c*) Field experiments

(*d*) Internet and WWW

(*e*) Grounded theory and surveys.