

International Islamic University Chittagong (IIUC)
Department of Electronic and Telecommunication Engineering
Midterm Examination

Program: **B.Sc. (Engg.)**
 Course Code: **ETE-4715**
 Total Marks: **30**

Semester: **Autumn 2022**
 Course Title: **Research Methodology**
 Time: **1 Hour 30 Minutes**

(i) Answer the following questions. The figures in the right-hand margin indicate full marks.						
(ii) Course Outcomes (COs) and Bloom's Levels are mentioned in additional Columns.						
Course Outcomes (COs) of the Questions						
CLO: 1	Comprehend various steps and their chronology for a good design of Research.					
CLO: 2	Comprehend and apply the methods of efficient literature review, data collection and sampling design.					
CLO: 3	Critically evaluate current research and propose possible alternate directions for further work.					
CLO: 4	Comprehend various issues connected to writing a good research report including Plagiarism.					
Bloom's Levels of the Questions						
Letter Symbols	R	U	Ap	An	E	C
Meaning	Remember	Understand	Apply	Analyze	Evaluate	Create

- Q1. a)** What is the definition of research? Define research methodology? Compare between research methods and research methodology. **CLO1/ CLO2** **R/U** **5**
- b)** What is research problem? What is research problem statement? Write down the seven-steps for an effective problem-solving process. **CLO2** **R/U** **5**
- Q2. a)** Briefly define the following types of research: **CLO1/ CLO2** **R/U/A n** **5**
- i) Analytical research
- ii) Applied research
- iii) Conceptual research
- iv) Empirical research
- v) Quantitative research
- b)** What is meant by ethics in research? Write about the ethical considerations which must be considered while conducting a research. **CLO2** **R/U/A n** **5**
- OR**
- Q2. a)** Write about the various types of the primary data collection techniques. **CLO1/ CLO2** **R/U/A n** **5**
- b)** Write about the various types of the secondary data collection techniques. **CLO2** **R/U/A n** **5**
- Q3.** Describe all the steps in research process. **CLO1/ CLO2** **U/A/E** **10**