

**International Islamic University Chittagong (IIUC)**

**Dept. of Computer Science & Engineering (CSE)**

**Midterm Examination: Spring 2022**

**Program: B.Sc. in CSE**

Course Code: **CSE-3529**

Course Title: **System Analysis & Design.**

Time: 1.5 Hours

Full Marks: 30

**Answer all the three questions. All parts of a question must be answered sequentially. Figures in the right margin indicate full marks.**

- COL2 1.(a) What are various fact finding techniques? Discuss the advantages and Disadvantages of using of these techniques. 4
- COL2 (b) Define System Prototype. Explain System Prototype Method (SPM). What are the features of prototyping. 4

OR

- COL1 (c) Describe Linear Sequential VS Waterfall model with feedback. 2
- COL1 (c) Describe system and information system with example. Why computer based information system is needed? 2

- COL2 2.(a) What is the System Development Life Cycle? Discuss the steps of SDLC in details. 4

- COL1 (b) Define the following terms: 4
- (i) Boundary & Environment
  - (ii) Sub system
  - (iii) Black box
  - (iv) Feedback Control

OR

What is System? What are the various components of System? Describe the different types of System.

- COL1 (c) Consider that you need to build online library management software for IIUC. To develop this software which techniques do you prefer from direct observation or document analysis. Justify your answer. 2

- COL3 3.(a) Write short notes on: 4
- (i) Breakeven Point
  - (ii) Return on Investment
  - (iii) Net Present Value
  - (iv) Profitability Index

- COL3 (b) What is feasibility study? What are different types of feasibility study? Write different steps of Feasibility analysis. 4

- COL3 (c) Differentiate between System analysis and design. 2

OR

Difference between RAD & JAD.