SECOND SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2022
(Regular/Improvement/Supplementary)

COMPUTER SCIENCE
FCSS2C10-PRINCIPLES OF SOFTWARE ENGINEERING

Time: 3 Hours   **Maximum Weightage: 30**

Section A: Short answer questions. Answer any *four* questions. Each carries 2 weightage.

1. What is "Agile" software development and what are your thoughts on it?

2. What is the importance of time management?

3. What is the need for an SRS document?

4. Define project story preparation.

5. Outline the terms fault and failure.

6. Give a short note on the problems that are likely to arise if two modules have high coupling.

7. What is meant by Symbolic Execution?

(4 × 2 = 8 weightage)

Section B: Short essay questions. Answer any *four* questions. Each carries 3 weightage.

8. What is the importance of models in software engineering? Explain with examples of any two process models which are commonly used.

9. Explain in detail about presenting ideas.

10. Describe the important principles and steps of user interface analysis and design.

11. Draw and explain Data Flow Diagrams and data dictionary for automation of College Library.

12. Discuss the need and benefits of a SRS Document.

13. Write a short account on risk identification and risk mitigation with an illustrative example.

14. Discuss briefly the basic concepts and types of User Interface design.

(4 × 3 = 12 weightage)

(P.T.O.)

Section C: Essay questions. Answer any *two* questions. Each carries 5 weightage.

15. Give a detailed account on the types of information sources and the different steps in writing literature survey.

16. Write about Software System with spiral Model and describe the problems of Waterfall Model.

17. What are the importances of communication? List and explain different forms of communication.

18. Describe the steps to be followed during software requirements gathering.

(2 × 5 = 10 weightage)