

**SECOND SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2021
COMPUTER SCIENCE
FCSS2C10-PRINCIPLES OF SOFTWARE ENGINEERING**

Time: 3 Hours

Maximum Weightage: 30

Section A: Short answer questions. All questions can be answered. Each carries two weightage (Ceiling 6 weightage).

1. What is the prime objective of software engineering?
2. Define Software process. State the important features of a process.
3. What do you mean by project story preparation?
4. How does cardinality differ from modality in an E-R diagram? Give example.
5. Distinguish between Verification and Validation?
6. What problems are likely to arise if two modules have high coupling?
7. List out the importance of literature survey.

Section B: Short essay questions. All questions can be answered. Each carries four weightage (Ceiling 12 weightage).

8. Explain in detail about Agile methods and its significance.
9. What is the need for a SRS Document? Discuss the benefits of a good SRS.
10. Give the benefits of verification and validation in software development and discuss the techniques of verification and validation in the process of software development.
11. Explain different types of information sources.
12. Give a note on report writing.
13. Explain how the structured analysis model and object oriented model are helpful in problem analysis.
14. Discuss the regression testing strategy and its significance.

Section C: Essay questions. All questions can be answered. Each carries six weightage (Ceiling 12 weightage).

15. List and discuss the steps to be followed during software requirements gathering.
16. Tabulate and discuss the project management activities that are carried out during the maintenance phase.
17. What is risk management? Discuss risk identification, risk monitoring and risk mitigation with an example.
18. With the help of a diagram, explain SDLC development of software development.