

Printed Pages – 4

Roll No.

C022612(022)

**B. Tech. (Sixth Semester) Examination,
April-May 2022**

(AICTE Scheme)

(Computer Science Engg. Branch)

**SOFTWARE ENGINEERING & PROJECT
MANAGEMENT**

Time Allowed : Three hours

Maximum Marks : 100

Minimum Pass Marks : 35

Note : Attempt all questions. Part (a) of each question is compulsory and carries 4 marks. Solve any two parts from part (b), (c) & (d) and carries 8 marks each.

Unit-I

1. (a) What are the 4 main roles of a project manager?

[2]

- (b) Explain Waterfall Model with its advantages and disadvantages.
- (c) What is re-engineering in software engineering?
- (d) What are the five steps in Agile development?

Unit-II

- 2. (a) What are the types of feasibility study?
- (b) Draw the level 1 Data Flow Diagram (DFD) of a food ordering system.
- (c) What is Cocomo model in Software Engineering?
- (d) Explain Data Dictionary in Software Engineering.

Unit-III

- 3. (a) What is Work Breakdown Structure?
- (b) Explain the Project Scope Management.
- (c) What is the importance of Out Sourcing? Give Pros and cons of Out Sourcing?

C022612(022)

[3]

- (d) What are the primary process of Project Procurement Management?

Unit-IV

- 4. (a) Explain the concept of Quality Management System with its benefit.
- (b) Explain Pareto Analysis in detail.
- (c) What is Software Engineering Institute Capability Maturity Model (SEICMM)?
- (d) Draw the Fishbone Diagram that shows the cause and effect relationship for any quality issue that has arisen or that may arise.

Unit-V

- 5. (a) What is Size Oriented Metrics? Give its advantages and disadvantages.
- (b) Why is ethics so important in leadership? What are the five principles of ethical leadership?

C022612(022)

PTO

[4]

(c) Give three main classifications of risks which can affect a software project? Explain the Principle of Risk Management.

(d) What are the metrics of reliability?