



<b>Course Code</b>	: 2104CS402	<b>Date</b>	: 18-10-2023
<b>Course Name</b>	: Software Engineering	<b>Duration</b>	: 150 Minutes
		<b>Total Marks</b>	: 70

**Instructions:**

1. Attempt all the questions.
2. Figures to the right indicates maximum marks.
3. Make suitable assumptions wherever necessary.

- Q.1 (A)** Define Software Engineering? List Software Application Domains. **4**
- (B)** Explain Software Engineering as a Layered technology. **3**

**OR**

Explain Characteristics of Software.

- (C)** Explain Waterfall process model. **7**

**OR**

Explain Prototype model in brief with suitable diagram.

- Q.2 (A)** Determine Requirement Engineering Tasks. **4**
- (B)** Prepare Use-case diagram for College Management System. **3**

**OR**

Prepare activity diagram for book issue in Library Management System.

- (C)** Differentiate Coupling and Cohesion. Explain different types of Coupling and its effects on software modules. **7**

**OR**

Analyze of Library Management System and write a Functional and Non-Functional Requirement of Library Management System.

- Q.3 (A)** Write Responsibility of Software Project Manager. **4**
- (B)** List and Explain Responsibility of Software Project Manager. **3**

**OR**

Define Project Scheduling Process. Also Explain Gantt Chart in detail.

- (C)** Explain COCOMO Model. **7**

**OR**

Classify different type of Software Project Estimation Metrics.

- Q.4**    **(A)**    Write Formal Technical Review **4**  
          **(B)**    Explain various coding standard. **3**

**OR**

Explain Unit Testing.

- (C)**    Prepare Test cases of Login Page. **7**

**OR**

Compute cyclomatic complexity and Design flow graph for given code fragment.

A = 10

IF B > C THEN

    A = B

ELSE

    A = C

ENDIF

Print A

Print B

Print C

- Q.5**    **(A)**    Explain Types of Software maintenance **4**  
          **(B)**    Explain Software Reengineering. **3**

**OR**

Discuss Advantages and Disadvantages of Software Maintenance

- (C)**    Explain Reverse Engineering in brief. **7**

**OR**

Explain Version and Change Control Management.

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