Subject Code: MTCS042

PAPER ID-411468

Roll No: | | | | | | | | | | | | | |

# MTECH
## (SEM II) THEORY EXAMINATION 2023-24
## SOFTWARE PROJECT PLANNING & MANAGEMENT

**TIME: 3 HRS** **M.MARKS: 70**

**Note: 1.** Attempt all Sections. If require any missing data; then choose suitably.

### SECTION A

**1. Attempt *all* questions in brief. 2 x 7 = 14**

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|---|---|
| a. | List any two primary purpose of software metric. |
| b. | Define "baseline" in the context of software configuration management. |
| c. | Explain the importance of risk mitigation strategy. |
| d. | Name a common challenge during the requirements management phase. |
| e. | Discuss advantages of software testing. |
| f. | Name two key activities during the maintenance phase. |
| g. | List the advantages of globalization in project management. |

### SECTION B

**2. Attempt any *three* of the following: 7 x 3 = 21**

| | |
|---|---|
| a. | Discuss the key considerations when selecting and defining software metrics for a specific project. |
| b. | Explain risk management. Discuss its important in the context of project management. |
| c. | Explain the dimensions of requirements gathering and the steps to be followed during this phase. |
| d. | Discuss different activities during testing phase. |
| e. | Discuss the impact of Internet on Project Management. |

### SECTION C

**3. Attempt any *one* part of the following: 7 x 1 = 7**

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|---|---|
| a. | Discuss typical Metrics Strategy in project management. |
| b. | Illustrate the key activities involved in software configuration management. |

**4. Attempt any *one* part of the following: 7 x 1 = 7**

| | |
|---|---|
| a. | Describe the risk management cycle and its phases. |
| b. | When does project closure happen, and what are the key activities involved in this phase? |

**5. Attempt any *one* part of the following: 7 x 1 = 7**

| | |
|---|---|
| a. | What is estimation in project management, and why is it crucial? |
| b. | Explain the importance of designing for reusability, portability, and interoperability. How do these design principles impact the overall software development lifecycle? |

**6. Attempt any *one* part of the following: 7 x 1 = 7**

| | |
|---|---|
| a. | Explain the process of estimating size, effort, and people resources for the maintenance phase. |
| b. | Discuss the advantages and challenges of using geographically distributed teams for the maintenance phase. |

**7. Attempt any *one* part of the following: 7 x 1 = 7**

| | |
|---|---|
| a. | What are the challenges organizations face in building global teams? How can these challenges be effectively managed to ensure team cohesion and productivity? |
| b. | Explain People Capability Maturity Model (P-CMM). |