22MCA2C8L

MCA II Semester (NEP) Degree Examination, Nov-2023

MATER OF COMPUTER APPLICATIONS

Paper: Software Engineering

Hours: 03   **Max Marks: 70**

Answer any Five of the following questions with Question No. 1 is Compulsory.

1. a)	Define Software Engineering. Mention essential characteristics of good software.	**7**
b)	What is Agile Methodology? Explain the principles of Agile Methodology.	**7**
2. a)	What is requirement engineering? Explain functional and non-functional requirements.	**7**
b)	What is the Use case model and how to make it? Discuss the four basic parts of Use case model.	**7**
3. a)	Discuss on quality guidelines of Design Process.	**7**
b)	Explain in detail the Layered architecture with diagram.	**7**
4. a)	Explain Equivalence Class Partitioning and Boundary Value Analysis with a suitable example.	**7**
b)	Explain the strategic issues of testing in detail.	**7**
5. a)	Explain the cost of estimation COCOMO model with suitable example.	**7**
b)	Describe the expression of algorithmic cost modeling.	**7**
6. a)	What is SRS Document? Explain the structure of SRS Document.	**7**
b)	Explain different Design concepts.	**7**
7. a)	Explain various methods to calculate the cyclomatic complexity with an example.	**7**
b)	Briefly narrate how project duration is calculated.	**7**
8.	Write a short note on the following: a. Scrum process model. b. Coupling & Cohesion. c. Golden rules for UI Design.	**5+5+4**

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