

Code No:8F404

Date: 08-August-2024 (T.N)

B.Tech II-Year II- Semester External Examination, August-2024 (Supplementary)
SOFTWARE ENGINEERING AND OOAD (CSE and IT)

Time: 3 Hours

Max.Marks:70

Note: a) No additional answer sheets will be provided.
b) All sub-parts of a question must be answered at one place only, otherwise it will not be valued.
c) Missing data can be assumed suitably.

Bloom's Cognitive Levels of Learning (BCLL)

Remember	L1	Apply	L3	Evaluate	L5
Understand	L2	Analyze	L4	Create	L6

Part - A
ANSWER ALL QUESTIONS

Max.Marks:20

	BCLL	CO(s)	Marks
1 What is the role of Software?	L1	CO1	[2M]
2 List the structural UML diagrams commonly used in software design.	L2	CO2	[2M]
3 List the task regions in the spiral model.	L2	CO3	[2M]
4 What is difference between 'Extend' and 'Include' in use cases?	L1	CO4	[2M]
5 Outline interaction diagrams. List the common notations used in interaction diagram	L3	CO5	[2M]
6 Name the commonly used architectural styles.	L4	CO6	[2M]
7 What are the umbrella activities of a software process?.	L1	CO1	[2M]
8 Describe the SRS Document	L2	CO3	[2M]
9 What are the different levels of testing in software development?	L1	CO5	[2M]
10 How water fall model is different from other engineering process models?	L4	CO6	[2M]

Part - B
ANSWER ANY FIVE QUESTIONS. EACH QUESTION CARRIES 10 MARKS.

Max.Marks:50

	BCLL	CO(s)	Marks
11. a) What is legacy software? Explain briefly its impact in software engineering.	L1	CO1	[5M]
b) Define the term Software. Describe its various characteristics	L2	CO1	[5M]
12. Explain software development life cycle. Discuss various activities during SDLC	L2	CO2	[10M]
13. a) Illustrate about software requirements document with an example.	L3	CO3	[5M]
b) Explain the following process models in detail. a) Iterative Development Model b) Time boxing Model	L2	CO3	[5M]
14. a) Explain in detail about Package diagram with an example	L2	CO4	[5M]
b) Apply UML concepts to create a Class Diagram for the Course Registration System, and analyze it to identify functions and relationships among classes.	L3	CO4	[5M]
15. a) Write the importance of UML in developing object oriented software.	L2	CO5	[5M]
b) Compare the influence of Use Case Diagrams on understanding system requirements in the Exam Registration System and the Recruitment System. Evaluate their importance and impact	L4	CO5	[5M]
16. a) Draw the interaction diagram for login use case in library application.	L4	CO6	[5M]
b) Outline the steps in modeling an activity diagram with an Example and also explain the purpose of State Chart diagram,	L3	CO6	[5M]

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| 17. | a) | What are the five generic process framework activities? Explain | L1 | CO1 | [4M] |
| | b) | Discuss the common properties and uses of class diagrams? | L2 | CO2 | [3M] |
| | c) | Construct a plan for organizing and creating a comprehensive Software Requirement Specification (SRS). | L3 | CO3 | [3M] |
| 18. | a) | Outline interaction diagrams. List the common notations used in interaction diagram | L4 | CO4 | [4M] |
| | b) | Classify the Behavioral UML Diagrams commonly used in software design | L2 | CO5 | [3M] |
| | c) | Discuss about state machine model | L1 | CO6 | [3M] |

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