

Code No: 7F404

Date: 07-Aug-2023 (T.N)

B.Tech II-Year II- Semester External Examination, Aug - 2023 (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

Max.Marks:20

ANSWER ALL QUESTIONS

	BCLL	CO(s)	Marks
1 Describe the Characteristics of Software.	L1	CO1	[2M]
2 What is Multiplicity. Explain this concept with example.	L2	CO2	[2M]
3 List out the characteristics of good SRS document.	L1	CO3	[2M]
4 What is reverse Engineering? Illustrate a situation when this is performed for a product?	L4	CO4	[2M]
5 What are the 4 basic components of Behavior Modelling?	L1	CO5	[2M]
6 What is an Event? List various types of events in UML.	L1	CO6	[2M]
7 What does a CMMI do? What are the 5 stages of maturity model?	L1	CO1	[2M]
8 What are the various static diagrams in UML?	L1	CO2	[2M]
9 What is the importance of state machines?	L1	CO6	[2M]
10 What is user requirements and system requirements ?	L1	CO3	[2M]

Part – B

Max.Marks:50

ANSWER ANY FIVE QUESTIONS. EACH QUESTION CARRIES 10 MARKS.

	BCLL	CO(s)	Marks
11. a) Discuss in brief about different Management and Customer Myths.	L6	CO1	[5M]
b) Explain changing nature of software in detail.	L2	CO1	[5M]
12. a) Illustrate various notations of UML diagrams in detail.	L4	CO2	[5M]
b) Briefly explain Software development lifecycle.	L2	CO2	[5M]
13. a) List out the types of SDLC models and explain spiral model of software engineering process.	L2	CO3	[5M]
b) Compare and contrast Functional and Non-functional requirements with example.	L5	CO3	[5M]
14. a) What is an object diagram in UML? What are the elements of an Object diagrams? Design an object diagrams for online shopping system.	L6	CO4	[5M]
b) What are the common Modelling techniques for object diagram?	L1	CO4	[5M]

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| 15. | a) | What is activity diagram? design a Activity diagram for library management system. | L6 | CO5 | [5M] |
| | b) | Compare sequence diagram and collaboration diagram with an example. | L5 | CO5 | [5M] |
| 16. | a) | What is the Purpose of State Chart Diagram? Draw a state chart machine for Hospital; Management system. | L6 | CO6 | [5M] |
| | b) | What does the component diagram represent? Explain with an example. | L2 | CO6 | [5M] |
| 17. | a) | Explain the dual role of a Software. Distinguish between system software and embedded software. | L2 | CO1 | [4M] |
| | b) | What are different types of relationships used in UML? Explain anyone with an example. | L1 | CO2 | [3M] |
| | c) | Compare between incremental and Spiral model with an neat diagrams. | L5 | CO3 | [3M] |
| 18. | a) | What is Class Diagram? Design a class diagram for Hotel Management system. | L6 | CO4 | [4M] |
| | b) | justify your answer with an example "Whether Uses case diagram is static diagram or dynamic diagram" | L5 | CO5 | [3M] |
| | c) | What is deployment diagram? Draw the deployment diagram for online trading system. | L6 | CO6 | [3M] |

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