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B.E. SEMESTER 5TH EXAMINATION APRIL, 2023

SUBJECT CODE: CT501-N   **SUBJECT NAME: SOFTWARE ENGINEERING**

DATE: 01/04/2023   **TIME:** 10 to 1   **TOTAL MARKS: 70**

Instructions:
1) All questions are **compulsory**.
2) Figures to the **right** indicate full marks.
3) Indicate **clearly**, the options you attempt along with its respective question number.
4) Use the last page of main supplementary for **rough work**.

Section – 1

			Marks
Q.1	(A)	What is software myth? Explain any two management software myths and corresponding reality of them.	[5]
Q.1	(B)	Why Software Process modes is required? Compare Spiral Model with Prototype model.	[5]
Q.1	(C)	What is Incremental Model in SDLC? Enlist advantages and disadvantages of it.	[5]

OR

Q.1	(C)	Explain Agile process modeling.	[5]

Q.2	(A)	Explain the requirement elicitation and elaboration phases.	[5]
Q.2	(B)	What is Requirement Engineering? Enlist the Functional and Non-Functional Requirements for hospital management system.	[5]

OR

Q.2	(A)	What is cohesion? How temporal cohesion is different from logical cohesion?	[5]
Q.2	(B)	Write Software Requirement Specification For Students Result Management System.	[5]

Q.3	(A)	Develop use case diagram for ATM System.	[5]
Q.3	(B)	Enlist coding principles. Why should they be followed for software development?	[5]

OR

Q.3	(A)	How testing does improve the quality of any software? Explain equivalence partitioning testing and boundary value analysis testing.	[5]
Q.3	(B)	What is User Interface? Explain the design model of UI.	[5]

Section – 2

Q.4	(A)	How to estimate the software size using function point method? Explain with an example.	[5]
Q.4	(B)	Differentiate unit testing and integrating testing.	[5]
Q.4	(C)	Why software reliability is important? How the reliability matric Mean Time Between Failure (MTBF) does different from Mean Time to Failure (MTTF)?	[5]

OR

Q.4	(C)	Why risk management is required in software development? Enlist three points to mitigate the software risk.	[5]

Q.5	(A)	Write short note on risk projection.	[5]
Q.5	(B)	Explain taxonomy of CASE tools.	[5]

OR

| Q.5 | (A) | What is the importance of Software Quality Assurance? Explain different CMM levels. | [5] |
| Q.5 | (B) | Differentiate between software engineering and reverse engineering. | [5] |

| Q.6 | (A) | Explain Software Quality Assurance activities. | [5] |
| Q-6 | (B) | Discuss Change control in SDLC With proper flow chart. | [5] |

OR

| Q.6 | (A) | Explain various elements of software process improvement with diagram. | [5] |
| Q.6 | (B) | Explain various emerging trends in software engineering. | [5] |