



END Semester Examination

Programme: B.Tech

Course Code: CT-16019

Branch: Computer Engineering

Duration: 3 Hrs.

Student PRN No.

Semester: VI

Course Name: Software Engineering

Academic Year: 2017-18

Max Marks: 60

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Instructions:

1. Figures to the right indicate the full marks.
2. Mobile phones and programmable calculators are strictly prohibited.
3. Writing anything on question paper is not allowed.
4. Exchange/Sharing of stationery, calculator etc. not allowed.
5. Write your PRN Number on Question Paper.

Q 1	A	What are the advantages of iterative development? Compare iterative development with Incremental delivery approach.	[6]
	B	Discuss the components of a Software Requirement Specification document.	[3]
	C	Explain modularity, Refinement and Refactoring in Software design process.	[6]
Q 2	A	How system modeling is achieved using UML? Explain with a suitable example.	[6]
	B	What are coupling and cohesion? High cohesion and low coupling is required for efficient software. Why?	[5]
	C	"Software engineering is a layered technology". Justify.	[4]
Q 3	A	Consider the problem of hostel management system and design the following: (i) Use case diagram with use cases (ii) Class Diagram (iii) Sequence diagram	[6]
	B	How equivalence partitioning and Boundary value analysis assist in testing? Explain.	[4]
	c	Discuss in detail acceptance testing approaches in detail with suitable example	[2]
	D	What is Effort Estimation and why it is essential in Project Management? An organic software product to be developed has been estimated to be 32,000 lines of code. Determine the effort required to develop the software product and the nominal development time.	[3]



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Q4	A	What is a test case? How test suite is constructed?	[5]
	B	What are formal technical reviews? How they are conducted.	[5]
	C	What is the difference between verification and validation? Explain with an example.	[5]