

Subject Code: 2153202

Date: 04/12/2019

Subject Name: Software Engineering

Time: 10:30 AM TO 01:00 PM

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

		MARKS
Q.1	(a) Explain Software engineering as a Layered technology.	03
	(b) Compare prototype and RAD model.	04
	(c) Explain various categories of Software in Detail.	07
Q.2	(a) What is Process? Discuss the process framework activities.	03
	(b) Explain Spiral Model in brief with suitable diagram.	04
	(c) Define FOUR Ps for project management and explain them in detail	07
	OR	
	(c) What is Importance of User Interface? Explain Concept of UI.	07
Q.3	(a) Explain Different Metrics –Size, Functional and complexity	03
	(b) Draw context diagram and data flow diagram (DFD) for Library Management System.	04
	(c) Explain W5HH Principle in detail.	07
	OR	
Q.3	(a) Explain the difference between software and hardware characteristics.	03
	(b) Compare and contrast alpha and beta testing.	04
	(c) What is Risk Management? Explain RMMM plan.	07
Q.4	(a) State the difference between procedural Design and Object Oriented Design.	03
	(b) Enlist and discuss the types of Risks.	04
	(c) What do you mean by debugging? Explain various debugging approaches	07
	OR	
Q.4	(a) Difference between reverse engineering and forward engineering.	03
	(b) Explain COCOMO model for project estimation.	04
	(c) Explain different tasks of Project Manager in Detail.	07
Q.5	(a) Compare Coupling and Cohesion. Explain different types of Coupling and its effects on software modules	03
	(b) Discuss umbrella activities and its role in software development life cycle.	04
	(c) What is Software Requirement Specification (SRS)? Why is it important? List the characteristic of a good quality SRS? What contents can we include in it?	07
	OR	
Q.5	(a) What is System testing and Recovery Testing?	03
	(b) What is CASE? Building Blocks of CASE.	04
	(c) What is Software Quality Assurance? Explain various factors that affect Software Quality	07
