C10-R4: SOFTWARE SYSTEMS

NOTE:

- 1. Answer question 1 and any FOUR from questions 2 to 7.
- 2. Parts of the same question should be answered together and in the same sequence.

Time: 3 Hours Total Marks: 100

- 1. (a) Describe the layered technologies of software development.
 - (b) Distinguish between data and information.
 - (c) What do you understand by software prototyping?
 - (d) What is UML Package Diagram?
 - (e) Explain in brief about Re-engineering.
 - (f) Explain the model based specifications in software systems.
 - (g) Discuss about Object Oriented (OO) Metrices.

(7x4)

- 2. (a) What is data dictionary? What are the objectives of data dictionaries? Explain types of data items in it.
 - (b) Describe about ADL (Architecture Description Languages) with respect to software architecture.

(9+9)

- 3. (a) Describe about activity diagram and state diagram.
 - (b) Enlist and explain various software characteristics.

(8+10)

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				(9+9)
		(iii)	Waterfall Model	(0 : 0)
		(ii)	Incremental Model	
		(i)	Prototype Model	
	(b)	Disc	cuss about the limitations of following software life cycle models in brief	f:
7.	(a)	Explain about OO Methodologies.		
				(9+9)
	(b)	Deve	velop a use case for the ATM system.	(0 0)
6.	(a)	What are functional and non-functional requirements for software?		
			(6	+6+6)
	(-)	of the process.		
	(c)	Define requirements engineering and draw the flowchart stating the steps		
.	(b)	What is an E-R Diagram? Explain the same with an example.		
5.	(a)	Expl	plain the role of UML in software architectures.	
				(9+9)
		(ii)	Software Re-use	
		(i)	Software Reliability	
	(b)) Define the terms:		

(a) Explain the generic views of software engineering.

4.