	Reg	gistration No:	
	Tota	al Number of Pages: 02	B.Tech.
210	210		PCS3I104
		The figures in the right hand margin indicate marks.	1651.
210	²¹⁰ Q1	Answer the following questions: multiple type or dash fill up type a) Who writes the SRS? a)System Developer b) System Tester c) System Analyst d)None of these above b) What is a DFD?	(2 x 10) ²¹⁰
210	210	A.The modern version of flowchart B.Mainly used at systems specification stage C.The primary output of the system design phase D.All of the above	210
210	210	 c) Checking quality of software in both simulated and live environments is known as A. Checking B. Usability C. Vaidity D. Validation d) The best file organization in which one has to process all data records in a file called A. Indexed B. Sequential C. Direct access D. Random access 	210
210	210	e) The largest percentage of total life cycle cost of software is: A.Design cost B.Maintenance cost ²¹⁰ C.Coding cost D.Testing cost	210
210	210	 f) The database design activity deals with the design of A.Logical database B.Physical database C.Both (a) and (b) D.None of the above g) Which of the following is not a component of object oriented software engg₂₁₀ A.Process 	210
210	210	B.Method C.Architecture D.None of the above h) Cost of error correction is least at A.Implementation stage B.Design stage C.Development stage D.Requirement analysis stage	210

	i)	Studying in detail the information needs of users and any information sy presently used. A. Systems analysis B. Functional requirement	stem		
210		C.Systems design D.User interface, data and process design Answer Report Discuss	210		210
740	j)	The rating of coupling of modules for strongest (least desirable) to weak (most desirable) are A.content, common, control, stamp, data B.common, content, control, stamp, data C.data, common ,stamp, content, common D.data, control, common, stamp, content			010
210 Q2		Answer the following questions: Short answer type	210	(2 x 10)	210
QΖ	a) b) c) d) e) f)	Explain any three principles of software engineering. How the limitations of waterfall model overcome? List down three agile principles. What are the characteristics of SRS? Differentiate hard real time & soft real time systems Define White Box Testing?		(2 X 10)	
210	g) h) i) j)	What is a boundary value analysis? 210 210 What are the common approaches in debugging? Write about drivers and stubs. What is Regression Testing?	210		210
Q3	a)	Explain in details about spiral model with a neat sketch and describe w	hy this	(10)	
	b)	model comes under both evolutionary and RAD models. List and describe good characteristics of a good software.		(5)	
Q4	a) b)	Describe how to prepare a software requirement specification document. List possible users and use of SRS for each user. Illustrate functional and non functional requirements in Software Engineer		(10) (5)	210
Q5	a) b)	Explain different types of Cohesion and coupling techniques. Discuss Object Oriented Analysis(OOA) and modeling in detail.	Jg.	(10) (5)	
Q6	a) b)	What are architectural and procedural software designs? Explain. Describe how the DFD is important in system design with example.	210	(10) (5)	210
Q7	a)	Write elaborately on Unit testing and Regression testing. How do you d	evelop	(10)	
	b)	test suites? What is cyclomatic complexity and what are the ways to compute it.	(5)		
Q8	a)	What is UML? Explain the following in context to UML. A)Use Case Diagram		(10)	
210	b)	B)Sequence Diagram 210 210 C)State Diagram D)Classes and Objects Black Box Testing vs White Box Testing.	210	(5)	210
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Q9	a) b)	Explain Software Reverse Engineering and Software Reengineering. Briefly describe Service Oriented Architecture(SOA) in software engineering.	ring.	(10) (5)	
210		210 210 210 210	210		210