Total No. of Questions	:	12]	
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B.E. Computer Engineering

SOFTWARE TESTINGAND QUALITIY ASSURANCE (2008 Pattern) (Elective - II) (Semester - I) Time: 3 Hour] [Max. Marks: 100] Instructions to the candidates: 1) Answers to the two sections should be written in separate answer books. 2) Answer three questions from Section-I and three questions from Section-II. 3) Neat diagrams must be drawn wherever necessary. Figures to the right side indicate full marks. 4) Assume Suitable data if necessary *5*) **SECTION - I** Give the importance of software testing. Explain the V model for software *Q1*) a) testing. [8] Explain the verification and validation with examples. b) [8] OR Explain the defect life cycle with defect report. **Q2)** a) [8] Explain the testing principles and criteria for completion of testing. [8] b) Give the design of test cases for online book ordering system. **O3**) a) [10] Compare the white box and black box testing with their challenges. [8] b) OR *Q4*) a) Explain black box testing methods. [10] Explain the purpose of positive and negative testing with the design of b) [8] test cases. Explain the graph based testing with example. **Q5**) a) [8] Describe the loop testing and mutation testing. b) [8]

Q6)	a)	Explain boundary value testing and equivalence partitioning.	[8]
	b)	How do the test cases are derived in basis path testing?	[8]
		SECTION - II	
Q7)	a)	What is GQM? How it is used in testing?	[8]
	b)	What is the need of validation testing? Explain validation testing methods.	sting [10]
		OR	
Q8)	a)	Describe scenario testing and regression testing.	[10]
	b)	Explain the testing measurement tools and metrics.	[8]
Q9)	a)	Explain six sigma in software quality management.	[8]
	b)	Describe the role of quality control in testing.	[8]
		OR	
Q10)Exp	lain the following:	[16]
	a)	Testing phases	
	b)	TQM	
	c)	SQA activities	
Q 11,) a)	Explain the GUI testing with an automation testing tool.	[8]
	b)	Compare manual and automation testing with examples.	[8]
		OR	
Q12) a)	Explain the need of automation testing. Give the automated test design with a tool.	case
	b)	How functional testing can be automated? Explain with a application.	web

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