Total No	o. of Questions : 12] SEAT No. :	
P2799	9 [Total No. of Page	ges: 2
	B.E.(Computer Engineering)	
S	SOFTWARE TESTING AND QUALITY ASSURANCE	
	(2008 Pattern) (Semester - I) (Elective-II) (410445D)	
Time: 3	B Hours] [Max. Marks	s:100
Instruction	tions to the candidates;	
1)	Answers to the two sections should be written in separate answer books.	
2) 3)	Answer three questions from Section-I and three questions from Section-II.  Neat diagrams must be drawn wherever necessary.	
<i>4)</i>	Figures to the right side indicate full marks.	
<i>5</i> )	Assume suitable data if necessary.	
	SECTION-L	
,	Ø, Ø.	
<b>Q1)</b> a)	What is verification and validation? Explain the testing lifecycle.	[10]
b)	Explain the defect report with an example.	[6]
	OR	
<b>Q2)</b> a)	Explain the importance of testing with different types of testing.	[8]
b)	Explain the different testing strategies.	[8]
<i>Q3)</i> a)	Explain the need of black box testing with positive and neg	ative
•	testing.	[10]
b)	Explain boundary value analysis and domain testing.	[8]
	OR OR	
<b>Q4)</b> a)	Differentiate between black box and white box testing. Explain equiva	lence
	partitioning testing.	[10]
b)	Explain the graph based testing methods.	[8]
<b>Q5)</b> a)	How do you derive test cases using loop testing?	[8]
b)	Explain the testing of object oriented system with example.	[8]
	OR	
		P.T.O

*P.T.O.* 

Q6)	a)	Explain mutation and data flow testing. [8]	8]		
	b)	What is the need of white box testing? How it is applied in statement	nt		
		coverage?	8]		
		SECTION-II			
<i>Q7</i> )	a)		8]		
	b)	Explain the following in brief. [10]	0]		
		i) Goal question metric			
		ii) Sanity testing			
		iii) Smoke testing			
		OR  Explain the regression and validation testing.			
<b>Q8</b> )	a)	Explain the regression and validation testing. [10]	0]		
	b)	Explain GUI testing with example.	8]		
<b>Q9</b> )	a)	Explain quality assurance and quality control. [8]	8]		
	b)	State and explain the quality factors. [8	8]		
		OR			
Q10	)Exp	lain the following in brief <sub>v.sppuonline.com</sub> [10]	6]		
	a)	TQM			
	b)	SQA model	0		
	c)	Quality attributes Quality attributes	3		
	d)	Scenario testing Scenario testing	4		
		39.			
011	\ - \		Ωl		
Q11)	,		8]		
	b)	How GUI testing is carried out with a testing tool?	8]		
		OR			
Q12,	)a)	Compare automated testing with manual testing. Give the design of te	est		
Q12)	<i>(u)</i>		8]		
	b)		8]		
			•		
[215	[5154]-181				
1.71.7	y <b>→ I − I</b>				