Tota	l No.	of Questions : 10]	200	SEAT No.:	
P33	348	[5461]-6	[5461]-610-A		No. of Pages : 2
		B. E. (1	.T.)		
	S	OFTWARE TESTINGAND Q	UALITYAS	SSURANCI	E (414457 C)
(2	2015	Pattern ) (Semester - I) (En	d Semester	r Exam) (E	lective-II)
Time	: 21/2	Hours]		[1	Max. Marks : 70
Instr	uctio	ns to the candidates:			
	1)	Answers Q1 or Q2, Q3 or Q4, Q5 or		, Q9 or Q.10.	
	2)	Neat diagrams must be drawn where		90	
	3)	Figures to the right side indicate ful	l marks.		
	<i>4)</i>	Assume Suitable data if necessary.			
Q1)	a)	What are various testing principl	es?	2	[6]
	b) ,	Explain white box testing and bl	ack box testi	nσ	[4]
		Angram winter our testing and of	DR S	6.	[.]
<b>Q</b> 2)	a)	What is six sigma? Explain its m	ethodologies	3?	[6]
	b)	Explain tester's role in software	development	organization	n. [4]
		(A) (S)	>		
		CY 29.			
<b>Q</b> 3)	( ) a) Explain different types of system testing.				[6]
	b)	Describe TQM for inventory ma	nagement.		[4]
			OR		×.9
Q4)	(4) a) Draw a control flow graph for the following code and cle node so that it is linked to its corresponding statement.			arly label each	
	int s	int evensum (int i) { sum = 0; while (i <= 10) {if (i/2 == 0)	ć	30,100	[6]
		sum = sum + i; i ++; }		30	
		return sum;	70.		
	b)	Write a short note on FMEA.	CAO.		[4]
			9.		<i>P.T.O.</i>

**Total No. of Questions: 10]** 

<b>Q</b> 5)	a)	Explain 7 QC tools in detail.	[8]		
	b)	Explain planning for software quality assurance w.r.t. to your project.	r final year [8]		
		OR			
Q6)	a)	Relate how components of SQA system can be applied for your project.	r final year [8]		
	b)	Explain product and process quality with an example.	[8]		
<b>Q</b> 7)	a)	Explain Malcom Baldrige Model?	[8]		
	b)	Draw and explain CMMI levels.	[8]		
		OR			
<b>Q8</b> )	a)	Write short note on following	[8]		
<b>~</b> /	,	i) CMM			
		ii) SPICE			
	b)	Explain in detail ISO 9000 model for quality assurance.	[8]		
<b>Q</b> 9)	a)	Write shot note on:	[10]		
		i) OO Methodology			
		ii) Walkthrough			
	b)	Explain Clean room methodology in detail along with diagran	n. <b>[8]</b>		
		OR OR	À.		
<b>Q</b> 10	<b>)</b> a)	i) Explain Software project Internal Auditing and Assessm	ents. [10]		
		ii) Explain how different Case Tools affects on software Q	uality.		
	b)	Consider online banking system, state and inject 5 defect in the which will cause flaw in the system and suggest it's preventive in			
		, , , , , , , , , , , , , , , , , , ,			