	SHAHE	ED BHAC	GAT SIN	GH S	TATE 1	ECHNI	CAL CAMPUS	EDDOGES	
ROI	LL No.:							, FEROZEP Il number of p	
							Total num	ber of ques	tions:08
				M	l.Tech	CSE			
		A	dvan				gineering	1.05	
						de:CS-			
			Paper]				office use)		
	Batch:	2004 or	ıwards/	2011	onwar	ds/2015	onwards[Ti	ck Relevan	t]
Ti	me allowed								
								Max Ma	rks:100
·mb0	rtant Insti Attempt		mostics.						
•	All questi					Accept.			
			equal h	uaiks					
Q. 1.	a) What	is meant	by forma	ıl requ	irements	s specific	ation? How is i	t better than	non-formal
requirements specifications? b) Explain various principles that guide a go									(10)
	b) Expl	ain varioi	s princip	les tha	it guide	a good so	oftware design.		(10)
Q. 2.	a) Comp	are and c	ontrast th	ne qual	ity proc	ess of SE	EI CMM and ISO	O 9001.	(10)
	b) Explain how Six Sigma approach is applicable to software quality. Disc								
	help of s	uitable ex	ample.						(10)
Q. 3.	Evolain	the follow	ina:						
Q. J.	•	Room T							(10)
	b) Software Maintenance								(10)
Q. 4.	a) Explain how best features of Waterfall model and Prototy						and Prototypin	g are include	
		r software				of Agila	davalanment f	ham I ifa assa	(10)
	*						development f Agile Develop		(10)
	Explain	arrous pe	Sitive an	и пове			right Bevelops	nont.	(10)
Q. 5.	a) What	types o	f errors	are o	detected	during	integration te	sting? Expl	ain various
		for integ		_					(10)
	b) Consid	der the pro	blem of	_		value of $x + a2x^2$	a polynomial o + a3x³	f the third or	der:
	What is	the numb	er of tes	t case	s one s	hould de	evelop for exha	ustive testir	g assuming

that one uses 32 bits to represent real number coefficients? Assuming that each test case uses up to 7 sec. How much time is needed to perform this testing? (10)

- Q. 6. Define:
 - a) Structured chart

(5 each)

- b) Traceability of design
- c) Data Dictionary
- d) Coupling and cohesion
- Q. 7. a) What problems would you face if you were developing several versions of the same product according to a client's request, and you were not using any configuration management tools?
 - b) What are the different types of projects defined for estimation of cost using COCOMO. (10)
- Q. 8. Why are legacy softwares are difficult to maintain? Explain the reverse engineering and re-engineering process for maintenance of software.