Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI • EXAMINATION - SUMMER 2013

Su	bject (Code: 160/01 Date: 24-05-2013	
Su	bject l	Name: Software Engineering	
	-	0.30 am - 01.00 pm Total Marks: 70	
	truction	•	
1115		Attempt all questions.	
		Make suitable assumptions wherever necessary.	
		Figures to the right indicate full marks.	
Q.1	(a)		07
	(i)	Once we write the program and test it, our work is not over.	
	(ii)	Design should be traceable to the requirements model.	
	(iii)	Full form of MTBF is ó Mean Time Between Failure.	
	(iv)	Context diagram represents system as a whole.	
	(v)	For software architecture, there can be many separate software designs.	
	. ,	Most of the technical effort is consumed in design phase of software	
	(vi)	development.	
	(vii)	Black Box testing focuses on the program control structure.	
	(b)		07
	(6)	of large-scale software system.	0 /
0.2	(a)	•	07
Q.2	(a)		U /
	(L)	Software Prototyping model.	07
	(b)		07
		Menu Panel (size 9KB) 2. Text editing window (size 5 KB) 3. Short cut keys	
		handler (size 6 KB). Use COCOMO to determine the overall cost of the	
		project and duration of development. OR	
	(b)		07
		following data set: Inputs =8, Outputs= 12, Inquiries = 4, Logical files = 41,	
		Interfaces = 1 and \hat{U} Fi = 41.	
Q.3	(a)	*	07
		What are major issues addressed by SRS?	
	(b)	Define module coupling and cohesion. Explain different types of coupling and	07
		cohesion.	
		OR	
Q.3	(a)	What is Software Quality Assurance? Explain various factors that affect	07
	, ,	Software Quality.	
	(b)	·	07
	()	are well defined.	
Q.4	(a)	Write short note on: Risk Management	07
	(b)		07
	(~)	maintain code quality under changing conditions.ö	٠.
		OR	
Q.4	(a)	Explain in detail the design issues while designing User Interface.	07
Q.4	(b)	Explain Black box testing and White box testing. Explain any one technique to	07
7. 7	(0)	carry out each testing.	U/
0.5	(a)	· · · · · · · · · · · · · · · · · · ·	07
Q.5	(a)	The state of the s	
	(b)	The state of the s	07
o -		OR	^-
Q.5	(a)	Explain Software Process Improvement. Explain various elements of SPI	07
		framework and maturity model.	_
	(b)	Write short note on: Software Project Management.	07