Subject Code:3640003

Date: 02-01-2018

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER- IV EXAMINATION - WINTER - 2017

Tiı	me: () tructio	Name: BASIC COMPUTER SCIENCE - 4 22:30 pm to 05:00 pm Total Marks: Attempt all questions.	70
	2.		
Q.1	(a)	Define the following terms (1) Software Engineering (2) Pair programming (3) Stack Holders (4) Open Close Principle (OCP) (5) Defect (6) V & V. (7) Generalization	07
	(b)	Differentiate the following terms. (1) Cohesion & Coupling (2) Alpha Testing & Beta Testing	03 04
Q.2	(a)	Explain the waterfall process model in detail with advantages and disadvantages.	07
	(b)	List out different design concept and explain any six in details with suitable example. OR	07
	(b)	What do you mean by requirement Engineering? Describe the seven distinct tasks encompassed in requirement engineering.	07
Q.3	(a) (b)	What are the various elements of good user interface design? Explain three golden rules for the user interface design. What do you mean by Review? Explain Formal Technical Review (FTR) in	07 07
		details. OR	
Q.3	(a) (b)	Explain the test strategies for conventional software in details. What is an architectural style? Explain the various taxonomy of architectural styles.	07 07
Q.4	(a) (b)	What is System Testing? Explain various types of system testing. What is Testing? Explain White Box testing with its types OR	07 07
Q.4	(a)	What is Project Management? Explain the various Project Management Spectrum in details.	07
	(b)	Explain COCOMO II model of Software estimation.	07
Q.5	(a) (b)	List out different functional requirements for Online Shopping Web portal with use case & DFD diagram. Explain Class & Object diagram with its conventions and concept of links &	07
	()	Association of it.	
Q.5	(a) (b)	OR Write a case study on University Management System with two UML diagram. What is software project scheduling? Explain its principles to prepare effective scheduling. ***********************************	07 07