SECOND SEMESTER [MCA] MAY-JUNE 2018

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Paner Co	ode: MCA-110	Subject: Software Engineering Maximum Marks: 75
Time: 3	Hours	Maximum marks.
Note: A	ttempt any five questions	including Q no.1 which is compulsory.
		(10x2.5=25)
(a)	What are the different requires	ment elicitation techniques? Which one is most
61-1	What characteristics a good Si	RS must possess? Design SRS template. d LOC.
(d)	Discus the template of a test of what is context diagram? Give	e an example.
(f)	Define reliability and usability	line Examination System.
(h (i)	n) Define mutation testing and in the world with the mutation testing and in the mutat	ng? Discuss the different levels of reverse
للر	il What is feasibility study and v	why it is conducted?
Q2 (a	 a) Explain the technique "Fa (FAST)". Compare and contra (b) Discuss the term software en model to develop a software? helps in selecting the appropriate 	acilitated Application Specification Technique ast it with Brainstorming sessions. (6) agineering? Explain the role of software life cycle What are the different features of a project that priate software life cycle model? (6.5)
,	(b) Explain use case and its consystem.	mponents. Draw use sast
Q4	function types and trains appropriate example. (b) Suppose a project with est development time for each different categories identifies	recht's function point. What are the different data actional function types. Discuss by taking an (6) imated to be 500KLOC. Calculate the effort and of the three modes of basic COCOMO. What are ed by COCOMO-II. (6.5)
Q5	(a) Discuss different levels of contrast with ISO 9001.(b) Explain the term modul software.	Capability Maturity Model (CMM). Compare and (7.5) arity. How modularity can be controlled in a (5)
Q6	(a) Discuss software reliability software reliability.	t the rules of counting for C language. Write a program volume and program length. (6)
Q7	(a) What is Software Maintens explain any one of them.(b) What is the role of configuration CM. What is the procedure	ance? List out different models of maintenance and (6) uration management (CM)? List all the activities of the to request for a change in software? Explain with (6.5)
Q8	example. (a) Define: path testing, data (b) What are the different type Explain one static testing	flow testing, verification and validation. (8) pes of tools that are available for testing purposes tool and one dynamic testing tool. (4.5)