Exam. Code : 110004 Subject Code : 3778

Bachelor of Vocation (Web Technology & Multimedia) 4th Semester

SOFTWARE ENGINEERING

Paper-402

Time Allowed—3 Hours] [Maximum Marks—100

Note:— Attempt any five questions. All questions carry equal marks.

- 1. (a) What is 'Software Crisis'? State the significance in reference to 'Software Engineering' Discipline. 10
- (b) What is meant by Software Quality? Describe the various factors which influence quality of a software product.
- 2. (a) What is Software Testing? List and explain important software testing techniques.
 - (b) Discuss the principles that may be useful in software development, and show how they are related. 10
- 3. Explain the following:
 - (a) CASE Tools and their utility 10
 - (b) Software Requirements Engineering. 10
- 4. (a) What software maintenance? What are its different types? How are these achieved? Illustrate. 10

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		and sufficient conditions for Software failure through an example.		
5.	their	at do you understand by software metrics? What is ressence? Chart the classification of software metrics illustrate the relevance each of these.		
6.	(a)	What is Software Reliability? Explain how it is related to:		
		(i) Hardware Reliability		
		(ii) Failure Intensity.		
	(b)	What do you understand by Software Specification Reviews? What are its benefits? Explain. 10		
7.	(a)	What is module coupling? How is it different from module cohesion? Illustrate different types of coupling and cohesion.		
	(b)	What is software project planning? Outline the goals of software project planning as well as the activities involved in software project planning.		
8.	(a)	What is coding? Discuss various coding conventions followed while writing programs.		
	(b)	What is the difference between Software Verification and Validation? Describe the importance of each in the Software Development process. Also enumerate		
		few important verification and validation techniques.		

(b) What is Software Failure? Explain three necessary