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Exam. Code	:	110004
Subject Code	:	2743
Val Taskaslamı (N/T	14: 1:-

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

Paper-402: SOFTWARE ENGINEERING

Time Allowed—3 Hours] [Maximum Marks—100

Note:— Attempt any five questions. All questions carry

equal marks.

- 1. (a) What do you mean by software lifecycle models?

 Discuss the essence of software lifecycle models.
 - (b) What is software engineering? Discuss the principles of software engineering as well as the essential characteristics of a well engineered software product.
 - 2. (a) What is software maintenance? What are its different types? How are these achieved? Illustrate. 10
 - (b) How are software faults and failures inter-related? What are different types of software failure? Also outline the characteristics of fault-free software.

10

- 3. (a) What is software project planning? Outline the goals of software project planning as well as the activities involved in software project planning.
 - (b) What is software requirement engineering? Why is it so important? Illustrate.

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4.	Wh	nat do you understand by software metrics	? What is
	thei	ir essence? Chart the classification of softw	are metrics
	and	illustrate the relevance of each of these.	20
5.	(a)	What is software design? Discuss the design	n principles
		in detail.	10
	(b)	What is software reliability? What char	acteristics
		of software make software reliability diff	erent from
		hardware reliability? Discuss.	10
6.	(a)	What are CASE tools? What are various	is types of
		CASE tools? Indicate their usefulness.	(B) 10
	(b)	What is software quality? What are importa	nt software
		quality attributes? Explain.	10
7.	(a)	Differentiate between the following:	
		(i) Black-box and White-box testing.	
		(ii) Software re-engineering and Engineering.	Reverse 10
	(b)	What is coding? Discuss various coding co	onventions
		followed while writing programs.	10
8.	(a)	What is module coupling? How is it different types of and cohesion.	
	(b)	What is software testing? How is testing	important
		in software lifecycle? Discuss the obje	ectives of
		software testing.	10