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BICS-005

B.Tech. - VIEP - COMPUTER SCIENCE AND ENGINEERING (BTCSVI)

Term-End Examination

00046

June, 2016

BICS-005: SOFTWARE ENGINEERING

Time : 3	hours Maximum Marks: 70
	Attempt any five questions. All questions carry equal marks.
1 (-)	Circa a genetic view of coffwore
1. (a)	Give a genetic view of software engineering.
(b)	What is the waterfall model? How is it different from other engineering process
	models?
2. (a)	Define software process. What are the fundamental activities of a software process?
(b)	Differentiate between prototyping and incremental models.
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3.	(a)	What is the objective of Formal Technical	
		Review? What is COCOMO model?	7
	(b)	Design a data flow diagram for a students registration program to manage course request, and handle students class schedule, students registration status and	
		class list for instructor.	7
4.	Writ	e down SRS for the following : $2 \times 7 =$:14
	(a)	A system to manage a library	
	(b)	A system to conduct online examinations	
5.	(a)	Explain the process of measuring software reliability.	7
	(b)	Define process metrics, project metrics and	
		size oriented metrics.	7
6.	(a)	What are the various software design methodologies ? Discuss the role of	
		abstraction in software design.	7
	(b)	What do you mean by function point	
		analysis? Mention any four features of it.	7

- 7. (a) Explain in detail the various testing strategies.7
 - (b) How are the CASE tools classified?

 Explain in detail.
- 8. Write short notes on any **two** of the following: $2\times7=14$
 - (a) Boundary Value Analysis
 - (b) Reverse Engineering
 - (c) Coupling and Cohesion