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BICS-005

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

Term-End Examination

June, 2012

BICS-005: SOFTWARE ENGINEERING

Time: 3 hours Maximum Marks: 70 Attempt any five questions. All questions carry equal marks. Differentiate between process and product. 1. (a) 4 Which one is more important and why? Explain in detail the following software 10 (b) process models with a neat diagram (i) Incremental process model Evolutionary process model (ii) 2. Briefly explain Data Flow Diagram and 7 (a) Construct a context diagram for the procedures followed in a restaurant for supplying food to the customer. Describe the concepts of cohesion and (b) 7 coupling. State the difference between cohesion and coupling with a suitable example.

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3. (a) estimation techniques in brief. How is COCOMO better than the other techniques? Explain with example diagram the (b) 7 functional and behavioural modeling. How do we model the software's reaction to some external event? How can metrics be helpful in software (a) 4. 7 process improvement? Explain. Compare function oriented metrics with size oriented metrics. (b) What are the various software design 7 methodologies? Discuss the role of abstraction in software design. Explain software crisis from a programmer's 5. (a) 7 point of view. What do you mean by Function Point (b) 7 Analysis? Mention any four features of it. 6. (a) Explain in detail the various testing 7 strategies. With a suitable example explain about the (b) 7 application of use cases in deriving the scenarios. Write short notes on any two: 7. 7x2=14CASE tools. (a) (b) Boundary Value Analysis (c) Software Prototyping (d) Reverse Engineering

Describe the various software

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