

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

**Term-End Examination**

**December, 2013**

**BICS-005 : SOFTWARE ENGINEERING**

*Time : 3 hours*

*Maximum Marks : 70*

*Note : Attempt any seven questions. Each questions carries equal marks.*

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1. Explain in detail about software development Life Cycle. 10
  
  2. What are the different types of Software Process and Project metrics ? 5+5
  
  3. What is a COCOMO ? Explain the components of COCOMO. 2+8
  
  4. Explain in detail about Heuristic Techniques. 10
  
  5. What is Prototyping ? Explain the different types of prototyping methods and tools. 2+8
  
  6. What is Information flow ? Illustrate with an example of DFD. 2+8

7. Explain in detail about Cohesion and Coupling. 5+5
8. What is software testing ? Discuss Test Case and Test Suite. 3+7
9. Explain in detail about alpha and beta testing. 5+5
10. Write short notes on the following (any two) : 5+5
- (a) Unit testing
  - (b) Security testing
  - (c) Stress testing
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