

**B.Tech. – VIEP – COMPUTER SCIENCE AND  
ENGINEERING (BTCSEVI)**

**00893**

**Term-End Examination**

**June, 2018**

**BICS-005 : SOFTWARE ENGINEERING**

*Time : 3 hours*

*Maximum Marks : 70*

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

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1. (a) What is Software ? Explain software process framework along with activities. 7
- (b) Explain Incremental software development model with the help of suitable diagram. 7
2. (a) What is feasibility study ? Explain various steps involved in a feasibility study. 6
- (b) Explain the differences between size oriented metrics and function oriented metrics. 8
3. (a) What is meant by software risk ? Explain how software risks are analysed. 7

- (b) Explain the importance of DFD. Draw various symbols of DFD with the significance of each. 7
4. (a) What is functional dependency ? Why is functional dependency important in software design ? 4
- (b) What is the need of software planning ? Explain the objectives of Risk management. 10
5. (a) How do you define software quality ? Explain various SQA activities. 6
- (b) Explain the differences between functional modeling and data modeling. 8
6. (a) What is meant by software testing ? Explain black box and white box testing. 7
- (b) Explain various testing strategies. 7
7. Explain any *two* of the following : 2×7=14
- (a) Data Design
- (b) Cardinality and Modality
- (c) Defect Removal Efficiency (DRE)