

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

**Term-End Examination**

**December, 2017**

00454

**BICS-005 : SOFTWARE ENGINEERING**

*Time : 3 hours*

*Maximum Marks : 70*

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

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1. (a) Explain the characteristics of software systems and software applications. 6
- (b) What is Linear Sequence Model ? Explain its advantages and disadvantages. 8
2. (a) What is Software Quality ? Also explain various measures for that. 7
- (b) What is the difference between measure and metric ? Briefly explain. 7
3. (a) Explain software configuration management and its process, version control and change control. 7
- (b) Explain User Interface design process. 7

4. (a) What do you mean by Function Point Analysis ? What are the types of function point analysis ? 7
- (b) Explain the importance of Entity Relationship Diagrams (ERD) in software development. Draw various symbols of ERD along with the significance of each. 7
5. (a) What is meant by Software Testing ? Also explain the differences between unit testing and integration testing. 7
- (b) Explain various testing strategies. 7
6. (a) Explain the project estimation techniques. 7
- (b) Explain project scheduling and tracking. 7
7. Explain any *two* of the following :  $2 \times 7 = 14$
- (a) SQA
- (b) COCOMO
- (c) Security Testing
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