

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

Term-End Examination

December, 2016

00693

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) Describe the difference between process and project metrics, with appropriate examples. 7
(b) Explain the purpose of data flow diagrams in software development. What are the various symbols used in a DFD ? 7
 2. (a) What do you mean by Function Point Analysis ? Mention any four features of it. 7
(b) Define the term Software. Describe its various characteristics. 7
 3. (a) When is cost estimation done ? Discuss the COCOMO model along with the parameters defined in it. 7
(b) Explain software crisis from a programmer's point of view. 7

4. (a) With a suitable example, explain about the application of use cases. 7
- (b) What is the need of software planning ? Explain the objectives of risk management. 7
5. (a) Explain in detail the various testing strategies. 7
- (b) Explain the required skills of a Project Manager. 7
6. (a) What are software metrics ? Explain. 3
- (b) What is testing ? Explain black-box testing and white-box testing. 6
- (c) What is a test case ? What are its components ? Explain with the help of a suitable example. 5
7. Explain any *two* of the following : $2 \times 7 = 14$
- (a) Debugging
- (b) CASE tools
- (c) Cohesion and Coupling
- (d) Verification and Validation
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