

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

**Term-End Examination**

**00525**

**June, 2019**

**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) What is software engineering ? What is software crisis ? How can it be managed ? 8
- (b) Explain the need of Software Requirement Specification (SRS). List any four qualities of good SRS. 6
2. (a) Explain the condition for which spiral model of software development should be used. List the advantages of spiral model. 8
- (b) What is verification ? How is it different from validation ? 6
3. (a) Design Data Flow Diagram (DFD) upto 2<sup>nd</sup> level for Online Banking System. 9
- (b) Explain the need of project scheduling in software project development. 5

4. (a) Explain software development life cycle. 7  
(b) Explain white box testing and black box testing. 7
5. (a) What is test case ? Explain the use of test case with the help of an example. 7  
(b) What is coupling ? Explain the meaning of strongly coupled system. 7
6. (a) What is the need of software planning ? Briefly explain any three types of project plans. 7  
(b) Explain the role of design documentation in good software development. 7
7. Explain any *two* of the following :  $2 \times 7 = 14$   
(a) Structure Chart  
(b) COCOMO  
(c) Software Quality Assurance Activities
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