

**BACHELOR OF COMPUTER APPLICATIONS  
(BCA) (Revised)**

**Term-End Examination**

**December, 2016**

**BCS-051 : INTRODUCTION TO SOFTWARE  
ENGINEERING**

*Time : 3 hours*

*Maximum Marks : 100*

*(Weightage : 75%)*

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*Note : Question number 1 is compulsory and carries 40 marks. Attempt any three questions from the rest.*

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1. (a) Develop an SRS for an "Online Student Registration System". Make necessary assumptions. Follow IEEE SRS format. Briefly explain the characteristics of a good SRS. 15
- (b) What is Spiral model for software development ? Explain the types of software systems developed using this model. 10
- (c) What is PERT chart ? Explain with the help of an example, the creation process of a PERT chart. 10
- (d) What is coupling ? Explain the meaning of a strongly coupled system. 5

2. (a) Draw the first two levels of DFDs for an "Online Student Registration System". Make necessary assumptions as required. 10
- (b) Develop a test case for any testing technique for an "Online Student Registration System". 10
3. (a) What is a data dictionary ? Briefly explain the contents of data dictionaries. 10
- (b) What are application logic objects ? Explain with the help of an example. 10
4. (a) What is Module Testing ? How is it different from Integration Testing ? 10
- (b) What is the need of software planning ? Briefly explain any four types of project plans. 10
5. Write short notes on any *four* of the following : 4×5=20
- (a) Entity Relationship Diagram
- (b) Class Diagram
- (c) Alpha and Beta Testing
- (d) Software Quality Assurance Activities
- (e) Project Triangle
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