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**B. C. A. (Fifth Semester) Examination,
Oct.-Nov., 2015**

(Course : 2010-2011) / (2012-13)

(For Regular / ATKT / Ex-Students)

SOFTWARE ENGINEERING

Time Allowed : Three hours

Maximum Marks : 50

Note : Attempt all the five questions. One question from each unit is compulsory. All questions carry equal marks.

Unit-I

1. What do you understand by Software Modeling? How Prototyping Model is useful in software development? Discuss. Compare Prototyping model with RAD model.

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Or

What do you understand by Software Engineering Principles? Discuss. Explain fourth generation techniques for software engineering and development.

Unit-II

2. What do you understand by information strategy planning? Discuss. How strategy planning contributes in product engineering? Discuss.

Or

What is data dictionary? Compare functional modeling, information flow and behaviour modeling.

Unit-III

3. What are the important considerations during software design? Discuss. Discuss the methods of data design and architectural design.

Or

What are the major steps involved in effective modular design? What is design heuristics? Discuss.

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Unit-IV

4. What is software testing? What do you understand by test case design and testing strategies? Discuss.

Or

What do you understand by design documentation? Discuss. Explain the difference between unit testing and integration testing.

Unit-V

5. Write notes on any two of the following :
- (i) Software Process and Project Metrics
 - (ii) Software Measurement
 - (iii) Metrics and Software Quality
 - (iv) Metrics in Project Domains