

01612

**DIPLOMA IN COMPUTER SCIENCE AND  
ENGINEERING (BTCSVI)**

**Term-End Examination**

**December, 2011**

**BICS-032 : SYSTEM ANALYSIS AND DESIGN**

*Time : 2 hours*

*Maximum Marks : 70*

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**Note :** *All questions are to be answered in English language only. Five questions are to be answered and question one is compulsory.*

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1. Compulsory question. Each sub part carry 2 marks.
  - (a) Running the system under live environment 2  
at user site to find error is known as
    - (i) Beta Testing
    - (ii) Alpha testing
    - (iii) Acceptance testing
    - (iv) System testing
  - (b) Which Phase of System Development Life 2  
Cycle decides weather the system is worthwhile executing or not ?
    - (i) Requirement Analysis
    - (ii) Coding
    - (iii) System Design
    - (iv) Feasibility Analysis

- (c) An SRS should not be unambiguous. True/False 2
- (d) Development of system with RAD is always cheaper. True/False 2
- (e) System design is carried out whenever a system analyst feels it is urgent. True/False 2
- (f) System test plan is specified during feasibility study. True/False 2
- (g) Objective of system modification is to use the latest software tools. True/False 2
2. (a) Define a system. Explain the components of a system. 5+2
- (b) How do you Explain system development life cycle ? 5+2
3. (a) Discuss the modern methods of collecting system requirements. 5+2
- (b) Are Excellent programmers necessarily excellent system analysts ? Justify your answer. 5+2
4. (a) What is the difference between acceptance testing and alpha, beta testing ? 5+2
- (b) Propose a standard structure for a system maintenance document which is designed to provide guidance for system maintainers. 5+2

5. What are the various building blocks of UML 10+4  
(Unified Modeling Language) ? Explain in detail.
6. Explain RAD Model and its various components. 10+4  
Explain advantages and disadvantages of RAD  
model.
7. (a) What are the different rules used while 5+2  
constructing the DFD ?  
(b) Draw a content diagram of Miss 5+2  
management system.
8. Write short note on *any four* :
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|-----------------------------------|-----|
| (a) Process Modeling              | 3.5 |
| (b) Integration Testing           | 3.5 |
| (c) Conceptual data Modeling      | 3.5 |
| (d) E - R Modeling                | 3.5 |
| (e) Non - functional Requirements | 3.5 |
| (f) Unified Modeling language     | 3.5 |
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