

Code : 303203

BCA 2nd Semester Exam., 2014

SYSTEM ANALYSIS AND DESIGN

Time : 3 hours

Full Marks : 60

Instructions :

- (i) The marks are indicated in the right-hand margin.
- (ii) There are **SEVEN** questions in this paper.
- (iii) Attempt **FIVE** questions in all.
- (iv) Question Nos. **1** and **2** are compulsory.

1. Choose the correct options (any six) : 2×6=12

- (a) How many steps are in the Systems Development Life Cycle (SDLC)?
 - (i) 4
 - (ii) 5
 - (iii) 6
 - (iv) 10
- (b) Which of the following is associated with make-or-buy decision in SDLC?
 - (i) Problem Opportunity
 - (ii) Design
 - (iii) Analysis
 - (iv) Development and Documentation

- (c) In which step actual programming of software code is done in the SDLC?
 - (i) Maintenance and Evaluation
 - (ii) Design
 - (iii) Analysis
 - (iv) Development and Documentation
- (d) Which one is provided by Technical Writers for the new system?
 - (i) Programs
 - (ii) Network
 - (iii) Analysis
 - (iv) Documentation
- (e) Debugging is
 - (i) creating program code
 - (ii) finding and correcting errors in the program code
 - (iii) identifying the task to be computerized
 - (iv) creating the algorithm

(3)

- (f) Which one of the following is false with respect to a use case?
- (i) It is a scenario for understanding the requirements
 - (ii) It is an interaction between users and the systems
 - (iii) It captures the responsibility of the system to its users
 - (iv) It represents the flow of activities of various processors in system
- (g) Testing of the software without knowledge of source code is called
- (i) white box testing
 - (ii) black box testing
 - (iii) gray box testing
 - (iv) blue box testing
- (h) Which one of the following is the Fact Finding Technique?
- (i) Systems Requirement Specification
 - (ii) Quality Assurance
 - (iii) Sampling of Existing Documents
 - (iv) Prototyping

(4)

- (i) Traditionally the only phase of software development where a formal approach is used is
- (i) programming
 - (ii) design
 - (iii) planning
 - (iv) testing
- (j) Which one of the following skill may not be required by a Systems Analyst?
- (i) Programming Language Skill
 - (ii) Technical Skill
 - (iii) Communication Skill
 - (iv) Management Skill

2. Write on any *three* of the following : 4×3=12

- (a) Physical Design
- (b) Management Skill
- (c) Prototyping
- (d) Technical Feasibility
- (e) Real-time Systems

Answer any *three* of the following : 12×3=36

3. What is Data Flow Diagram? Explain.
4. Explain different types of Documentation.
5. What are the issues involved in feasibility study?
6. Explain Top-down Design.
7. Discuss the Criteria for Form Design.
