

Bachelor in Information Technology (BIT)

Term-End Examination

June, 2007

CSI-02 : SYSTEMS ANALYSIS

Time : 3 Hours

Maximum Marks : 75

Note : Section A is **compulsory**. Questions 1 to 10 of Section A carry one mark each. Questions 11 to 14 carry 5 marks each. Answer any **three** questions from Section B. Each question of Section B carries 15 marks.

SECTION A

1. _____ facilitate the development of information systems, and computer applications.
 - (a) Systems analysts
 - (b) Only Hardware Engineers
 - (c) Domain experts
 - (d) None of the above

2. CMM stands for
 - (a) Container Maturity Model
 - (b) Capability Maturity Model
 - (c) Container Model Maturity
 - (d) None of the above

3. _____ identifies the required tasks to complete the project.
 - (a) Estimating
 - (b) Planning
 - (c) Scheduling
 - (d) Testing

4. A _____ limits your flexibility in defining a solution to your objectives.
- (a) Constraint
 - (b) Compiler
 - (c) Programming Language
 - (d) Project
5. _____ is a description of the needs and desires for an information system.
- (a) System requirements
 - (b) DFD
 - (c) PERT chart
 - (d) GANTT chart
6. _____ is a technique for organizing and documenting systems data.
- (a) Functional modeling
 - (b) Top Down analysis
 - (c) Bottom Up design
 - (d) Data modeling
7. If each module in a project accomplishes only one function, then the modules of that project are _____ .
- (a) cohesive
 - (b) coupled
 - (c) of small size
 - (d) highly complex
8. _____ is a collection of similar records.
- (a) DFD
 - (b) ERD
 - (c) File
 - (d) Flow chart

9. _____ is a collections of fields.
- (a) Record
 - (b) ERD
 - (c) DFD
 - (d) File
10. _____ is the first phase of the classic systems development process.
- (a) Preliminary investigation phase
 - (b) Design
 - (c) Testing
 - (d) Coding
11. Give any five examples of software development projects which are suitable to be developed using Prototype model. Justify your answer.
12. Write any two tasks that are performed during Analysis phase of a Software Development Life Cycle.
13. Draw an E-R diagram for an *Employee Information System* of an organization. Make assumptions wherever necessary.
14. Distinguish Analysis phase from Design phase of Software Development Life Cycle.

SECTION B

Answer any three of the following questions. Each question carries 15 marks.

15. Draw detailed (at least upto 3 levels) Data Flow Diagrams for various processes involved in a *Hospital Management System*. Make necessary assumptions.

- 16.** Write at least 5 questions that are to be posed by Systems Analyst to customer during Requirements Analysis. Also, state the reasons for posing of each question.
- 17.** Draw a DFD (upto required levels) for various processes involved in Tele-Learning Centre Management. Assumptions can be made wherever necessary.
- 18.** Explain any five principles of Design.