CSI-02

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. *1*

(a) Systems analysts
(b) Only Hardware Engineers
(c) Domain experts
(d) None of the above

2. CMM stands for *1*

(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. *1*

(a) Estimating
(b) Planning
(c) Scheduling
(d) Testing

4. A _____ limits your flexibility in defining a solution to your objectives. *1*

(a) Constraint
(b) Compiler
(c) Programming Language
(d) Project

5. _____ is a description of the needs and desires for an information system. *1*

(a) System requirements

(b) DFD

(c) PERT chart

(d) GANTT chart

6. _____ is a technique for organizing and documenting systems data. *1*

(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 _____ . *1*

(a) cohesive

(b) coupled

(c) of small size

(d) highly complex

8. _____ is a collection of similar records. *1*

(a) DFD

(b) ERD

(c) File

(d) Flow chart

9. _____ is a collections of fields. *1*

(a) Record

(b) ERD

(c) DFD

(d) File

10. _____ is the first phase of the classic systems development process. *1*

(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. *5*

12. Write any two tasks that are performed during Analysis phase of a Software Development Life Cycle. *5*

13. Draw an E-R diagram for an *Employee Information System* of an organization. Make assumptions wherever necessary. *5*

14. Distinguish Analysis phase from Design phase of Software Development Life Cycle. *5*

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. *15*

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. *15*

17. Draw a DFD (upto required levels) for various processes involved in Tele-Learning Centre Management. Assumptions can be made wherever necessary. *15*

18. Explain any five principles of Design. *15*