BICS-032

DIPLOMA IN COMPUTER SCIENCE AND ENGINEERING (BTCSVI)

00205

Term-End Examination

June, 2012

BICS-032 : SYSTEM ANALYSIS AND DESIGN

Time : 2 Hours   *Maximum Marks : 70*

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

1. Compulsory Questions. All sub - parts of 2 marks each.

    (a) The major goal of requirement   2 determination phase is :

    (i) determine when information is to be given

    (ii) determine what information is needed by organization.

    (iii) determine how information needed by an organization can be provided.

    (iv) determine whether information is needed by an organization.

    (b) Feasibility study is carried out by :   2

    (i) manager of the organization

    (ii) system analyst

    (iii) user of the proposal system

    (iv) system designer

(c) Changing an operational information **2**
system is :

(i)   impossible

(ii) never required

(iii) usually done

(iv) expensive and done selectively

(d) Analyst need to be good trainer. True/False **2**

(e) An SRS should be ambiguous. True/False **2**

(f) A system is organized way of achieving goal **2**
without any consideration of people
involved. True/False

(g) Prototype is not an example of graphical **2**
methods. True/False

2. (a) Discuss the role of system analysis and **7**
design in the development of a system.

(b) Explain various steps involved in system **7**
analysis and design.

3. (a) Describe the importance of system analyst ? **7**
List various tools used by system analyst.

(b) Discuss the traditional and modern **7**
methods of collecting requirements.

4. (a) What are the different types of testing **5+2**
involve in system development life cycle ?
Explain.

(b) Why cost of adding functionality to a system   5+2
after it has been put into operation is greater
than providing similar functionality when
software is originally developed ?

5. (a) Describe system testing in detail. Describe   5+2
five different types of system testing.

(b) What are various organizational issues in   5+2
system implementation ?

6. What are the different rules used while   10+4
constructing the DFD ? Draw a DFD for cheque
encashment.

7. (a) Explain object oriented development life   5+2
cycle.

(b) Differentiate between object oriented   5+2
analysis and object oriented design.

8. Attempt *any four* from the following :
Write "short note" :
(a) RAD   3.5
(b) Use case Diagram   3.5
(c) Information system   3.5
(d) E.R Modeling   3.5
(e) Dynamic Modeling   3.5
(f) Documentation.   3.5