| BICS-032 |

00236

DIPLOMA - VIEP COMPUTER SCIENCE AND ENGINEERING (BTCSVI)

Term-End Examination

June, 2013

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 and question óne is compulsory.*

1.   *Compulsory* question.   Each sub part carry
     2 marks :   **2x7=14**

   (a)   The set of technique and tools that allow to
         develop a new kind of specification is called

      (i)   Feasiblity Study

      (ii)   Documentation

      (iii) Structured Analysis.

      (iv)   Request Approval

   (b)   Which of the following dose not give the
         function details ?

      (i)   DFD

      (ii)   Data dictionary

      (iii) ER-diagram

      (iv)   BCNF

(c) Which one of the following involved in complex decision resulting but limited number of action ?

    (i) DFD

    (ii) Decision Trees

    (iii) Binary Trees

    (iv) Data document

(d) In structured chart connection from one module to another module represented by :

    (i) Circular tail

    (ii) Vector link

    (iii) Coupled linking

    (iv) Vector linking

(e) File volatility addresses the properties of record changed (True/False)

(f) An SRS should not be unambiguous (True/False)

(g) The cluster can slow down when inserting data (True/False)

2. (a) Define a System. Explain the components of a system.   2+5

   (b) Explain the phases of System Development Life Cycle.   7

3. (a) What are the different types of system ? 2+5
Explain the appropriate steps for Improving
Development.

   (b) Define skill. Explain the qualities of Expert 2+5
System Analyst.

4. (a) Explain Process Modeling. Differentiate : 3+4
Traditional and Modern methods for
determining system requirements.

   (b) Illustrate with an example of Data Flow 7
Diagram.

5. (a) How do you explain Training Support
performed in a system ? Mention few steps
necessary for system maintenance. 3.5+3.5

   (b) What is the difference between acceptance 7
testing and alpha, beta testing ?

6. (a) What is OOAD ? Explain object Model in 2+5
Detail.

   (b) Explain the phases of the RAD model.
What are the advantages and
disadvantages of RAD model ? 3.5+3.5

7. (a) What are the different features of process 3+4
Modeling ? How do you differentiate
between Analysis and Design ?

   (b) Draw a Data Flow Diagram of college 7
management system.

8. Write short note on *any four* : **3.5x4=14**

   (a) Unified Modeling Language

   (b) Conceptual Data Modeling

   (c) E-R Modeling

   (d) Installation

   (e) Dynamic modeling

   (f) Documentation in System Design