DIPLOMA - VIEP COMPUTER SCIENCE AND ENGINEERING (BTCSVI)

Term-End Examination

December, 2013

BICS-032 : SYSTEM ANALYSIS AND DESIGN

Time : 2 hours   *Maximum Marks : 70*

Note : *Attempt* **any five** *questions. Question No.1 is* *compulsory.* *All questions carry* **equal marks.**

1. Choose the correct Answer for the following : **7x2=14**
    (a) Problem Analysis is done during.
        (i)   System design phase
        (ii) System analysis phase
        (iii) Before system test
        (iv) None of the above
    (b) System study involves :
        (i)   Study of an existing system
        (ii) Documenting the existing system
        (iii) Identifying and establishing new goals
        (iv) All of the above
    (c) The primary tool used in structured design is a:
        (i)   Structure chart
        (ii) Data flow diagram
        (iii) Module
        (iv) None

(d) The step-by-step instruction that solve a problem are called :
  (i) An Algorithm
  (ii) Flow chart
  (iii) A list
  (iv) None

(e) In systems analysis the analyst specifies the detailed computer based solution. (True/False)

(f) System analysis emphasizes the business problem, system; design focuses on the technical or Implementation concern of the system. (True/Fasle)

(g) With prototyping there is No need for the system analysis phases. (True/False)

2. (a) What is meant by scope of a system? Explain with an example. **7**

  (b) What is the difference between system analysis and system design? Explain. **7**

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

  (b) Distinguish between technical, operational, and economical feasibility with suitable examples. **7**

4. (a) Describe the importance and characteristics of a good documentation in system development process. **7**

  (b) What are various organizational issues in system implementation? **7**

5. (a) Explain object oriented analysis and object oriented design. **7**

  (b) Explain object oriented development life cycle. **7**

6. Define DFD. Draw a data flow diagram **14** depicting various processes, data flow and data repositories for a retail outlet of a chemist shop.

7. (a) What is the need of system testing? Explain **7** the testing techniques and their objective.
   (b) What are the important special **7** considerations for user interface design? Explain.

8. Write short notes on *any four* of the following :
   (a) UML **3.5x4=14**
   (b) E-R modeling
   (c) Dynamic modeling
   (d) System maintence
   (e) Types of system
   (f) RAD

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