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SE-6841

B. E. III (Sem. V) (I.T.) Examination

April / May – 2011

System Analysis & Design

Time : **3** Hours] [Total Marks : **100**

Instructions :

(1)

નીચે દર્શાવેલ ☛ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fillup strictly the details of ☛ signs on your answer book.

Name of the Examination :

☛ **B. E. 3 (Sem. 5) (I.T.)**

Name of the Subject :

☛ **System Analysis & Design**

☛ Subject Code No. : **6 8 4 1** ☛ Section No. (1, 2,.....) : **1&2**

Seat No. :

Student's Signature

(2) Answers to the **two** sections must be written in separate answer book.

(3) Figure to the extreme **right** indicates maximum marks.

(4) Be brief in answering. Support your answering with block diagram wherever possible.

SECTION-I

1 Find **True/False** from the following statements and justify if it is **false** : **20**

(i) System development consists of two major components : System analysis and System design.

(ii) Implementation is the process of having systems personnel check out and put new equipment into use.

(iii) Design states what the system should do.

(iv) System design is the process of planning a new business system.

(v) The increased use of information systems is a two edged sword with both benefits and risks.

(vi) Analysis specifies how to accomplish the objective.

(vii) System analysis do more than solve current problems.

(viii) Evaluation of the system is performed to identify its strength and weaknesses.

(ix) Transaction processing systems provide speed and accuracy.

(x) Management information system (MIS) assist managers in decision making and problem solving.

2 (a) Enlist and explain the reasons for initiating information system projects. 8

(b) Write a note on Classical Systems Development Life Cycle (SDLC). 7

OR

2 (a) Validate the statement : "Reliable Computer Information System are a strategic weapon that can change the way a firm competes." 8

(b) What comes first ? Analysis or Design of a system. Justify your answer. 7

3 Write short notes : (any **three**) 15

(a) Reviewing and selecting projects for development

(b) Fact-finding techniques for collection of data

(c) Decision Table and Decision Tree

(d) Data Flow Diagram (DFD) and Data Dictionary

(e) Work of system analyst.

SECTION - II

4 Find **True/False** from the following statements and justify if it is **false** : **20**

(i) System analysis is about understanding situations, not solving problems.

(ii) The dialogue does not guide the interaction between system and user.

(iii) Transaction systems are operations-oriented.

(iv) A system is said to have reliability if it does not produce dangerous or costly failures when it is used in a reasonable manner.

(v) System output may be a report, a document, a message.

(vi) Control generally means "Keeping things on track."

(vii) Determining system requirement requires analysis of the facts in hand.

(viii) Analysts often use open-ended questionnaires to learn about feelings, opinions and general experiences.

(ix) Conversion is the process of changing from the old system to the new one.

(x) An interface is the common boundary between the user and the computer system application.

5 (a) Elaborate the objectives in designing an information system. 8

(b) Explain Computer-Assisted Systems Engineering tools (CASE). 7

OR

5 (a) What is meant by the term output ? State the objectives, types of output. 8

(b) Differentiate between : End-user Design Responsibilities and System Analysts' Responsibilities. 7

6 Write notes on : (any **three**) **15**

(a) Quality Assurance and its Levels

(b) System Testing

(c) Hierarchical input process output

(d) Human engineering and ergonomic design

(e) Warnier / Orr Diagrams.
