(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 7128   Roll No. ☐☐☐☐☐☐☐☐☐☐

MBA
(SEMESTER-III) THEORY EXAMINATION, 2012-13
SYSTEM ANALYSIS & DESIGN & SOFTWARE ENGINEERING

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

Note : Attempt **all** questions

Section – 1 $2 \times 10 = 20$

1. (a)   Define Software Engineering.

    (b)   Explain transaction processing system.

    (c)   How important is formal information system in system analysis ? Explain.

    (d)   Distinguish between Open and Closed systems.

    (e)   Why is a data base important in MIS ? Explain.

    (f)   What is Decision Table ?

    (g)   Differentiate between unit testing and integration testing.

    (h)   Explain Decision Support System.

    (i)   Explain ER diagram.

    (j)   How virus affects the system ? Name any two virus.

Section – 2 $10 \times 3 = 30$

Attempt any **three** questions from this section :

2. (a)   Why do we test systems ? How important is testing ? A variety of tests are used to test systems, discuss three such tests.

    (b)   How object oriented approach helps in modern day system design approach ? Describe the main features of Object Oriented Analysis and design approach.

    (c)   What is encryption ? How does it work ? What type or level of system would incorporate this technology ? Illustrate.

    (d)   Discuss risks associated with Internet. How can we create a secured system ?

(e) Write short notes on :

(i) Steps in Feasibility Analysis

(ii) Disaster Recovery Plan

(iii) Internet Security Standards

Section –3

Attempt **all** the questions from this section :   10 × 5 = 50

3. (a) Explain the various characteristics of systems.

OR

Define system. What are the various types of system ? Explain.

(b) What is SDLC ? How would an analysis determine the user's needs for a system ? Explain.

OR

Explain the multifaceted role of the system analyst.

(c) What planning dimensions determine information system development ? Elaborate.

OR

Describe the concept and procedure used in constructing DFDs. Use an example of your own to illustrate.

(d) What advantages does a data dictionary offer in the area of documentation ?

OR

Distinguish between the following :

(i) HIPO and IPO

(ii) Coupling and Cohesion

(e) Distinguish between initial investigation and feasibility study. In what way they are related ?

OR

Differentiate between logical and physical design. Give characteristics of a good design.

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