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MBA 3rd Semester Examination

System Analysis and Design & Software Engineering (N.S.)

IT-03

Time : 3 Hours   **Max. Marks : 60**

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

SECTION - A

1.   Attempt all the following briefly:

 (a)   What is data dictionary?

 (b)   Compare economic and operational feasibility.

 (c)   What is probabilistic system?

 (d)   How do system analysis and design relate to each other?

 (e)   What is significance of system planning phase in SDLC?

 (f)   What is automated system?

 (g)   Differentiate between weak entity and strong entity.

 (h)   What do you understand by tolerable risk?

 (i)   How decision trees are useful?

 (j)   What are internet security standards?   **(2×10=20)**

SECTION - B

2.   Attempt any four from the following:

 (a)   What are the important characteristics of a system? List the four skills needed by a successful system analyst.

(b) What do you understand by the term "requirement elicitation"? Discuss any two techniques in detail.

(c) Write a short note on data flow diagrams.

(d) What are the inputs to the various processes of system development phase and what are their deliverables?

(e) What are the different steps in the implementation of a system? Discuss in brief.

(f) Discuss in brief about feasibility report.   **(4×5=20)**

SECTION - C

3. Attempt any two from the following:

(a) Discuss the importance of various phases of system development life cycle. What are the variations in SDLC model?

(b) Explain how prototyping helps in determining information systems requirement. In what situations prototyping is most suitable and useful for requirements determination?

(c) Explain various symbols and ER diagrams. An airline reservation is an association between a passenger, a flight and a seat. Select a few pertinent attributes for each of these entity types and represent a reservation in an ER diagram.

(d) What do you mean by cryptography? Discuss symmetric and asymmetric type of encryption algorithms.

(2×10=20)