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MCA – 125

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

**PAPER ID : 1453**

Roll No.

**M. C. A.**

(SEM. II) EXAMINATION, 2006-07

**SYSTEM ANALYSIS & DESIGN**

*Time : 3 Hours]*

*[Total Marks : 100*

- Note :**
- (1) Attempt all questions.
  - (2) All questions carry **equal** marks.
  - (3) In case of numerical problems assume data wherever not provided.
  - (4) Be precise in your answer.

- 1** Attempt any **four** parts of the following : **5×4=20**
- (a) Discuss the primary characteristics of open systems. In what way is a system entropic?
  - (b) Why is a database important in MIS? Explain.
  - (c) Differentiate between formal system and informal system.
  - (d) Describe why information is most usefully thought of as an organizational resource rather than as an organizational byproduct.
  - (e) What is a system? Discuss the elements of a system in brief.
  - (f) Distinguish between schematic and static system model, physical and abstract system.

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- 2** Attempt any four parts of the following : **5×4=20**
- (a) What is the system development life cycle? How does it relate to system analysis?
  - (b) Why is a system proposal so crucial for system design? Explain the feasibility report.
  - (c) A number of activities are carried out under implementation. Elaborate.
  - (d) Explain briefly the levels of structuring work units in system development.
  - (e) How would an analysis determine the user's needs for a system? Explain. Also give distribution of efforts in various phases.
  - (f) Distinguish between initial investigation and feasibility study. In what way are they related?
- 3** Attempt any **two** parts of the following : **10×2=20**
- (a) The political factor has been brought up in the literature on several occasions. In what respect should the analyst be a politician? What would be an example where political considerations are used in systems work?
  - (b) What important information does the user's request form provide? Why is it so important in the initial investigation? Explain in detail.
  - (c) Describe the data analysis method. How does it differ from decision analysis method? Elaborate on the pros and cons of each method.
- 4** Attempt any **two** parts of the following : **10×2=20**
- (a) Information is available from Internal and External sources. Under what circumstances would the analyst depend more heavily on external than internal information? Why?

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- (b) How does the decision tree analysis help in taking decisions. Illustrate with the help of an example.
- (c) Describe the concept and procedure used in constructing DFDs. Use an example of Library Management System to describe and draw DFD.

**5** Attempt any **two** parts of the following : **10×2=20**

- (a) Many feasibility studies produce disillusion to users and analyst. Do you agree? Why? Explain.
  - (b) If you were asked to develop a form control program for your firm, how would you proceed? How would you control for unauthorized forms?
  - (c) Briefly explain the procedure and make up of post-implementation review, can one perform maintenance on a system without a post implementation review? Why?
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