

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

PAPER ID : 1470

Roll No.

--	--	--	--	--	--	--	--	--	--

MCA

SECOND SEMESTER EXAMINATION, 2005-2006

SYSTEM ANALYSIS AND DESIGN

Time : 3 Hours

Total Marks : 100

Note : (i) Attempt **ALL** questions.

(ii) All questions carry equal marks.

(iii) In case of numerical problems assume data wherever not provided.

(iv) Be precise in your answer.

1. Attempt **any four** parts of the following : (5x4=20)

- (a) What are the components of a system ?
- (b) How would you view organization as a system ?
- (c) Differentiate between information system and MIS. What is system boundary ?
- (d) Explain the following terms :
 - (i) Transaction Processing systems
 - (ii) Decision Support Systems
 - (iii) Expert Systems.
- (e) Discuss the formal systems and informal systems in an organization ?
- (f) Discuss various objectives an analyst should accomplish during preliminary investigation.

001675

2. Attempt *any four* parts of the following : (5x4=20)

- (a) What is the need for system analysis and design in an organization ?
- (b) Explain system development life cycle.
- (c) What is feasibility analysis ? What type of data is required for feasibility analysis ?
- (d) What are the various costs and benefits in a project ? Explain Cost/Benefit Analysis.
- (e) Describe the function of system analyst in an organization ?
- (f) What is System Maintenance and why is it required ? Explain.

3. Attempt *any two* parts of the following : (10x2=20)

- (a) Discuss the various strategies for determining information requirement ?
- (b) Write short note on :
 - (i) Pert Diagram
 - (ii) Gantt Chart
- (c) Explain the terms :
 - (i) Background analysis
 - (ii) Fact analysis
 - (iii) Performance analysis
 - (iv) Efficiency analysis
 - (v) Service analysis

4. Attempt *any two* parts of the following : (10x2=20)

- (a) What kind of information does the system analyst seek through the use of questionnaires or surveys ? What considerations are necessary when questionnaires are web-based ?
- (b) What are the advantages of using data flow approach over narrative explanations of data movement ?
- (c) Describe the main uses of Decision trees in systems analysis. What are the Major steps in building decision trees ?

5. Attempt *any two* parts of the following : (10x2=20)

- (a) Discuss the various steps in feasibility analysis ? What is the criteria for Hardware selection for an organization ?
- (b) What are the considerations to be made for designing a good output ? What are the guidelines for good screen design ?
- (c) Compare the advantages and disadvantages of buying, leasing and renting Computer equipment.

- o O o -