



Printed Pages : 4

MCA – 205

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

PAPER ID : 1470

Roll No.

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M. C. A.

(SEM. II) EXAMINATION, 2006-07

SYSTEM ANALYSIS & DESIGN

Time : 3 Hours]

[Total Marks : 100

Note : Attempt all questions.

- 1** Answr any **four** parts : **4×5=20**
- (a) What is meant by scope of a system? Explain with an example.
 - (b) Describe the role of a system administrator.
 - (c) Why is it important to differentiate between personal, impersonal and anonymous communication?
 - (d) How is problem finding related to problem solving? Explain with example.
 - (e) Describe the essential component and capabilities of a DSS.
 - (f) Will information sharing always result in coordination or collaboration between business process? Explain.
- 2** Answer any **four** parts : **4×5=20**
- (a) Why is documentation important to the information system life cycle? Explain.

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- (b) What is the difference between system analysis and system design? Explain.
- (c) What do you mean by cause-and-effect analysis? Explain with example.
- (d) Describe the user's contribution to information system planning.
- (e) Who are the parties involved in an organization's information system and how does each affect the psychological climate?
- (f) What are the factors that should be kept in mind while designing GUI?

3 Answer any **two** parts : **10×2=20**

- (a) (i) Differentiate among the following plans: strategic, long range, medium range, and short range.
- (ii) What is meant by "project portfolio" and what purpose does it serve?
- (b) What is meant by requirement analysis? Why does requirements analysis never really end for a project? How can this reality be accommodated? Discuss.
- (c) (i) What are the seven common fact finding techniques? Explain any one of them.
- (ii) Differentiate between functional and non-functional requirements.

4 Answer any **two** parts : **10×2=20**

- (a) (i) Explain the difference between a structured interview and an unstructured interview? When is each type of interview appropriately used?

- (ii) List and explain six guidelines for effective listening.
- (b) (i) Explain how requirements error, if left undetected, costs more to fix as the project progresses through the life cycle.
- (ii) Describe the initial two steps followed by a system analyst when he/she is requested to design an information system.
- (c) A magazine is published monthly and is sent by post to its subscribers. Two months before the expiry of subscription, a reminder is sent to the subscriber. If subscription is not received within a month, another reminder is sent. If renewal subscription is not received upto two weeks before the expiry of the subscription, the subscriber's name is removed from the mailing list and the subscriber is informed. Obtain a physical and logical DFD for this problem.

5 Answer any **two** parts : **10×2=20**

- (a) (i) Distinguish between technical, operational and economical feasibility with suitable examples.
- (ii) List several intangible benefits. How would you quantify each intangible benefit in terms of money say rupees (a measure that management can understand) ?
- (b) (i) What are characteristics that can be used to classify outputs? Also differentiate between external and internal outputs.
- (ii) What are turnaround documents? Give several examples.

- (c) (i) What implications would input design likely have on output design? How about the other way around?
 - (ii) What are the important special considerations for user interface design? Explain.
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