

LC-108

April-2014

Fourth Semester S.Y. M.Sc. (CA & IT) (Integrated)

System Analysis, Design and Modelling

Time : 3 Hours]

[Max. Marks : 100

1. Attempt any **four** : **20**
- (a) What is the system development Life Cycle ? Briefly describe the activities it includes.
 - (b) What features distinguish the structured analysis development method ?
 - (c) How does the work of systems analysts vary from organization ? Why does this difference exist ?
 - (d) What is the purpose of a preliminary investigation ? What outcome is expected ? Who carried out this investigation ?
 - (e) Discuss the kinds of committee formats for project selection. What advantages and disadvantages do each offer ? What is the responsibility of each ?
2. (A) Attempt any **two** : **20**
- (a) Describe the role of a data dictionary plays in the documentation and analysis of an existing system.
 - (b) Explain CASE tools and its components.
 - (c) Explain advantages and disadvantages of structured and unstructured interview technique.
- (B) Draw a context diagram and level 1 DFD for the following system :
- A school has a fee collection and billing system The parents are required to fill a form and submit it in the school. The records of student fee are updated and then the money is submitted by the school in the bank. The school then sends the receipt to the parents.
3. Attempt any **four** : **20**
- (a) Explain in detail strategies for development of application prototype.
 - (b) Explain : What objectives guide the systems analyst in designing an information system ?

- (c) What is a deliverable ? Explain in brief the deliverables in system development process.
- (d) Explain in detail rationale for application prototyping.
- (e) Explain tools for prototyping.

4. Attempt any **four** : **20**

- (a) Write in short about Output Design.
- (b) Write in short about Input Design.
- (c) Why is it so important to validate data during input ? What methods are available to do this ? Briefly explain each method.
- (d) Explain Dialogue strategies in detail.
- (e) What is an interface ? What purpose should an interface serve ?

5. Write short note on : (any **five**) **20**

- (a) HIPO
 - (b) Warnier / Orr Diagram
 - (c) Level of Quality assurance
 - (d) Data communication design
 - (e) Methods of System Conversion
 - (f) Training Methods
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