

Seat No. : \_\_\_\_\_

**AJ-126**

**April-2016**

**M.Sc., Sem.-IV**

**System Analysis, Design and Modelling**

**Time : 3 Hours]**

**[Max. Marks : 100**

1. Answer the following (any **four**) **20**
  - (a) According to system analyst who is end user ? Explain all categories of end-users.
  - (b) What is SDLC ? Briefly describe the activities it includes.
  - (c) List all the reasons to undertake any Information Systems Project. And explain any two in detail.
  - (d) How are Institutional and End user applications different ?
  - (e) Define the term system, open system, closed system with example.
  
2. Answer the following (any **four**) **20**
  - (a) Briefly describe each of the structures used in Structured English.
  - (b) What forms of Decision tables are used ?
  - (c) What is Data-Dictionary ? What does a Data-Dictionary record ?
  - (d) Discuss benefits and weaknesses of CASE.
  - (e) Draw context level and first level DFD of your choice.
  
3. Answer the following (any **four**) **20**
  - (a) What is a prototype ? Discuss the use of Prototype.
  - (b) What features must be specified in an Information System Design ?
  - (c) Which factors the analyst should consider while doing analysis of fact ?
  - (d) List out the difference between Third-Generation Language and Fourth-Generation Language.
  - (e) What objectives guide the system analyst in designing an information system ?

4. Answer the following (any **four**) **20**
- (a) Define output. What are the analyst's objectives in designing output ?
  - (b) What are the most commonly used business graphics ? For what type of information should each be used to be most effective ?
  - (c) Describe the types of data that should always be part of systems input. Which types of data should not ordinarily be input ?
  - (d) What is an interface ? Discuss the characteristics of an interface in online systems.
  - (e) How do online systems differ from Batch applications ?
5. Answer the following (any **four**) **20**
- (a) Discuss milestone, bar and PERT charts briefly.
  - (b) Write a short note on software selection.
  - (c) What methods are used for systems conversion ? Briefly describe each.
  - (d) Write a short note on HIPO.
  - (e) Explain Protocol, Asynchronous Protocol and synchronous Protocol.
-