S.E. (Comp.) (Sem. IV) (Revised 07-08) Examination, May/June 2009 SYSTEM ANALYSIS AND DESIGN

Duration: 3 Hours Total Marks: 166

> Note: 1) Answer any 5 full questions, by selecting at least I full questions from each Module.

> > 2) Assume necessary details, if any.

b) What is a feasibility report? What are its contents?

		MODULE-I	
1	. a)	What are the characteristics of a system?	5
	b)	Describe the technical skills that a system analyst must possess.	5
	c)	Write short notes on :	5
		i) Management Information Systems.	
		ii) Decision Support Systems.	
	d)	Explain the various steps in system design with a neat diagram.	5
2	a)	Discuss the analyst / user interface with regards to the following.	5
		i) User Motivation	
		ii) Analyst/user differences.	
	b)	Explain 5 important characteristics of open systems.	5
	c)	Discuss the primary functions of an MIS facility.	7
	d)	What are the reasons for project termination?	3
		MODULE-II	
3	9)	What are the classifications of costs and benefits ?	



c) Draw a DFD for the following scenario:

A system that allows a visitor who has registered to upload and download photos.

- Members must register to use the system by entering their details, username and password.
- > After successfully registering themselves there will be a registration confirmation message given to them.
- Now they can log into the system using the username and password they have registered with.
- A login confirmation message will be displayed as a feedback from the login process.
- > Once they have successfully logged into the system, they can do the following
 - · View and update their profile
 - · Upload and download photos.
- 4. a) What are the symbols and rules in DFD construction?
 - b) Compare interviews and questionnaires as tools for information gathering.
 - c) Construct a decision table for the following scenario.

A telecom company has the following tariff. For calls made within 200 kms the tariff is Rs. 1.20 per minute. Minimum billing is for 3 minutes. For calls beyond 200 kms the tariff is Rs. 1.80 per minute. Minimum billing is for 2 minutes. This rate is applicable from 9.00 a.m. to 10.00 p.m. From 10.00 p.m. to 9.00 a.m. the rate is half.

MODULE - III

- 5. a) Discuss importance of normalization. Explain steps involved in
 - b) Explain the role of the data base administrator.
 - c) Explain the various classifications of forms with examples.

- 6. a) What does the HIPO package format consist of?
 - b) Explain the following in the context of form layout.
 - i) Data classification and zoning
 - ii) Paper selection
 - iii) Spacing requirements.
 - c) Discuss the goal of input and output design.
 - b) Discuss carbon paper as a form copier.

MODULE-IV

- 7. a) Explain the activity network for system planning.
 - b) Write short notes on the following:
 - i) File conversion
 - ii) Test files
 - iii) Audit control.
 - c) "A project manager must be the kingpin of personnel motivation". Do you agree?"

 Discuss in detail.
- 8. a) What is a disaster/recovery team? Explain its objectives.
 - b) Discuss advantages and disadvantages of the lease option.
 - c) What are the elements of user training?