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S.E. (Computer) Semester- IV (Revised Course 2007-08)
EXAMINATION MAY/JUNE 2019
System Analysis & Design

[Duration : 3 Hours]

[Max. Marks : 100]

Instructions: Please check whether you have got the right question paper.
i) Answer any 5 questions by selecting at least one question from each module.

MODULE I

- Q. 1 a. With the help of a diagram, explain the levels of information in an organization requiring an information system. **08**
b. Distinguish between initial investigation and feasibility study. Explain how they are related. **06**
c. Explain the characteristics of an open system w.r.t. to an institute management system. **06**
- Q. 2 a. Explain the multi-faceted role of an analyst **08**
b. When does an analyst terminate a project? Explain its relation with post implementation. **08**
c. Differentiate between physical and abstract system. **04**

MODULE II

- Q. 3 a. Explain any one tool for gathering information **06**
b. Draw a DFD for a banking system. Show the following functions: deposit and withdraw. **08**
c. Explain and provide examples for the following **06**
i) Dichotomous Questions
ii) Ranking scale questions
iii) Rating scale questions
- Q. 4 a. Explain net benefit analysis with an example. **04**
b. What are the advantages and limitations of questionnaires and interviews? **08**
c. Write a short note on any two of the following. **(4 × 2=8)**
i. Decision Table
ii. Delphi method
iii. Brainstorming

MODULE III

- Q. 5 a. Discuss the following form layout considerations **10**
i. Form number and form title
ii. Data classification

- iii. Data Zoning
- iv. Rules and captions

- b. Write a short note on audit trail 05
 - c. Explain the role of a database administrator. 05
- Q. 6
- a. Explain the elements used for structure charts. Define cohesion and coupling. 08
 - b. What is normalization? Why is it required? 04
 - c. Explain the different approaches to data entry. 08

MODULE IV

- Q. 7
- a. A project has the following activity details. 08

Activity	Predecessors	Activity time (weeks)
A	-	3
B	-	4
C	-	3
D	C	9
E	B	6
F	A	8
G	E, F	3

Draw a Gantt chart to represent the project, determine the activities comprising critical path, and estimate project duration.

- b. State the functions explaining the major phases in hardware/ software selection 08
 - c. Write a short note on stress testing 04
- Q. 8
- a. What are the various types of maintenance? What is the difference between maintenance and enhancement 08
 - b. Write a short note on disaster recovery. 05
 - c. What is quality assurance? Discuss the levels of quality assurance. 07