

SVK/KW/11 - 2201

First Semester First Year Master in  
Computer Application Examination

1CSA-5

SYSTEM ANALYSIS AND DESIGN

Time : Three Hours ] [ Max. Marks : 80

N. B. : All questions are compulsory and Carry equal marks.

1. EITHER :—

- (a) What is System ? Explain the different types of Systems with suitable example. 8
- (b) Discuss the different considerations in deciding a candidate system. 8

OR

- (c) Explain the different roles of System Analyst in system development. 8
- (d) Discuss the behavioural issues involved in understanding the analyst user interface. 8

2. EITHER :—

- (a) What is preliminary investigation ? Why is it necessary ? 8
- (b) Draw the context diagram and Data-flow diagram for the following problem.  
Consider a system in bank whereby the account holders get their withdrawals effected. Whenever an account holder wants to withdraw some cash, he presents a cheque or withdrawal

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slip. The account is checked for appropriate balance. If balances exists, the cash is paid and the account is updated. 8

OR

- (c) What are traditional information gathering tools available in system analysis and design ? Explain any two briefly. 8
- (d) What is feasibility study ? Explain the different types of feasibility study in brief.

3. EITHER :—

- (a) What is Cost-Benefit analysis ? Explain the different types of cost involved in cost-benefit analysis. 8
- (b) What is form ? Explain the different types of forms. 8

OR

- (c) What are the objectives of input design ? What are the different factors to be considered for input design ? 8
- (d) What are the goals of functional decomposition approach to structured design ? 8

4. EITHER :—

- (a) Explain the roles of data processing auditor. 8
- (b) Explain the following file organization.
  - (i) Sequential organization.
  - (ii) Index sequential organization. 8

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OR

- (c) What is system testing ? Explain the different types of system testing. 8
- (d) How is quality assurance achieved in system implementation ? 8

5. EITHER :—

- (a) What is disaster/recover planning ? Why is it important ? 8
- (b) What are the different factors for the failures of the project ? 8

OR

- (c) What are the different ways of doing computer contract ? Discuss respective advantages and disadvantages. 8
- (d) Discuss various project scheduling tools. 8