Paper-I
System Analysis and Design

Time : Three Hours]　　　　　　　　　[Maximum Marks : 100

Note :- Attempt **FIVE** questions in all, selecting at least **ONE** questions from each Section. **All** questions carry **equal** marks.

SECTION-I

1. (a) Describe elements and characteristics of a Computer based system.

   (b) Elaborate the Techanical and Interpersonal skills required for a system analyst.　　　　　　　　10×2

2. (a) Discuss briefly the basic parts of the preliminary inversigation report.

   (b) System management is a life long process. Comment.

   　　　　　　　　　　　　　　　　　　10×2

3. (a) Describe in detail prototype iterative designing technique for a system development life cycle.

   (b) Discuss the role of users in a syste.　　　10×2

SECTION-II

4. (a) Explain under what circumstance one uses an Interviewing technique rather than other data collection methods.

   (b) Explain briefly the procedure used to construct questionnaires.　　　　　　　　　　　10×2

5. (a) What cost elements are considered in cost-benefit analysis? Describe procedure for cost benefit determination.

   (b) Data dictionary and DFDs (Data flow diagrams) are co-related Discuss. 10×2

6. (a) What is structured analysis ? Briefly review the tools used. How does it differ from traditional approach ?

   (b) List and illustrate the primary uses and elements of a decision table. 10×2

SECTION - III

7. Distinguish between :

   (a) Logical design and physical design

   (b) Module coupling and cohesion. 10×2

8. (a) What role does a CRT terminal play for input and output ? What is unique about on line data entry ?

   (b) Distinguish between snap out form and fan fold form. 10×2

SECTION-D

9. (a) Specify the purpose of system testing. What performance criteria are used for system testing? Discuss.

   (b) Distinguish between software modification and software system audit. 10×2

10. (a) It has been suggested that software should be considered before hardware. Do you agree ?

   (b) What are the major threats to system security ? Which one is the most serious and why ? 10×2

□□□