System Analysis and Design Paper : BCA-301

Time : 3 Hours   M.M. : 100

Note—   Attempt *five* questions in all. All questions carry equal marks.

SECTION-A

1. (a) Describe elements and characteristics of a computer based information system.   10

   (b) Explain the role of a system analyst in the development of system.   10

2. (a) What do you mean by Project Management ? Why it is necessary to manage the project ?   10

   (b) What is the purpose of preliminary investigation ?

3. (a) Discuss the reasons and criteria of project selection in system analysis.   10

   (b) Explain the following with suitable example :

(i) Open System   (ii) Closed System

(iii) Abstract System   (iv) Environment of a System

SECTION-B

4. Write short notes on the following :

(i) Data Dictionary   (ii) Decision Tree

(iii) Structured English   (iv) Decision tables

5. (a) What is DFD ? Explain steps to construct DFD with suitable examples.   10

(b) What are the various information gathering tools ?   6

6. What do you mean by structured analysis ? Why it is useful for business information system ? Explain.   20

SECTION-C

7. (a) What is a HIPO Chart ? Explain.   10

(b) Differentiate between logical design and physical design.

     10

8. Write are the different advantages of using from-driven design methodology ? Explain.

SECTION-D

9. What do you mean by System Testing ? Explain different types of Syaem Testing.   20

10. Write short note on the following :

(i) Test plan   (ii) System Maintenance

(iii) Threats to System Security

(iv) Software System Audit.   20