

**II Semester B.C.A. Examination, June 2009  
(Old Scheme)  
2 BCA 5 : SYSTEM ANALYSIS AND DESIGN**

Time : 3 Hours

Max. Marks : 80

**Instruction : All Sections are compulsory.**

**SECTION – A**

**Note :** 1) Answer **any 8** questions.

2) **Each** question carries **3** marks.

**(8×3=24)**

1. Define a system. What are the elements of a system ?
2. Give the characteristics of Transaction processing system.
3. What is structured analysis ? List out the various tools used for structured analysis.
4. Differentiate between Logical and Physical design.
5. What is a form ? Give the various types of forms.
6. Differentiate between system testing and user acceptance testing.
7. Briefly explain the three levels of quality assurance.
8. Write a note on data dictionary.
9. What do you mean by pay back analysis ? How is it calculated ?
10. What do you mean by user training ? How important it is ?

**SECTION – B**

**Note :** 1) Answer **any 4** questions.

2) **Each** question carries **14** marks.

**(4×14=56)**

11. a) Explain different types of information system.
- b) Explain the skills of system analyst.

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12. Explain the various phases involved in system development life cycle.
13. a) What is cost/benefit analysis ? Explain the various evaluation methods for cost/benefit analysis.
- b) Explain audit trial.
14. a) What are the requirements of form design ?
- b) Explain decision table and decision tree with an example.
15. a) What is implementation ? Explain various types of conversion.
- b) What do you mean by output design ? What are the objectives of an analyst in designing an output ?
16. Write a short note on :
- i) Expert systems
- ii) Prototyping
- iii) Controls in GUI