Roll No. .....

97668

B.C.A. 2nd Semester

Examination–May, 2015

Structured System Analysis and Design

Paper-BCA-109

Time : 3 hours ***Max. Marks : 80***

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard will be entertained after the examination.

Note : Attempt **five** questions in all. Question No. 1 is **compulsory** and attempt **four** more questions by selecting **one** question from each unit. All questions carry equal marks.

1. Answer the following questions:

(a) What is system planning?

(b) Differentiate between physical and abstract-system.

(c) What do you mean by structured analysis?

(d) Write the advantages of DFD.

(e) List various input devices for feeding the raw data into the system.

(f) List four guidelines for good form design.

(g) Define alpha and beta testing.

(h) What is audit trial?

Unit-I

2. (a) What are the elements of a system? Explain in detail.

(b) What are the multifaceted roles of a system analyst? Explain.

3. (a) Explain the following categories of information system:

(i) Transaction processing system

(ii) Decision support system

(b) What fact finding techr ques would you use for investigating the information requirements of a large organization?

Unit-II

4. Explain data dictionary, decision tree, decision table and structured flowchart with example and suitable diagrams.

5. (a) Write short notes on the following:

(i) Feasibility report

(ii) Oral presentation

(b) "Since cost plays quite an important role in deciding the new system, it must be identified and estimated properly". With respect to this statement, explain the cost/benefit analysis and its classification.

Unit-III

6. (a) What are the different types of system designs? Explain each with the help of an example.

(b) What is modularization? Also explain the concept of coupling and cohesion.

7. (a) Explain the various approaches for online data entry.

(b) What are the requirements of form design? Describe the layout consideration in form design.

Unit-IV

8. (a) Explain the various levels of testing. What types of fault are detected at each level?

(b) Explain various types of system maintenance.

9. (a) What levels of quality assurance must a system meet? Explain.

(b) Write short notes on the following:

(i) Test plan

(ii) System implementation