(e) Discuss the behavioural issues involved in understanding the analyst / user interface.

(f) When does analyst terminate a project? How does it tie in with post implementation? Explain.

3. Attempt any **Two** of the following questions: **6 x 2 = 12**

(a) Draw a context and First Level DFD for a Super Market?

(b) Using a relevant example explain various steps for writing a feasibility Report?

(c) Explain various principles involved in doing a Cost Benefit Analysis?

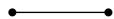**4.** Attempt any **Two** of the following questions: **6 x 2 = 12**

(a) Explain various stages in a Design Process?

(b) Explain Structured Walkthrough, Data Validation and Audit Trail? Also discuss their applications?

(c) What do you understand by Form Design? Explain various types of Form Design?

5. Attempt any **Two** of the following questions: **6 x 2 = 12**

(a) What is System Testing? Explain its various types?

(b) Explain various criteria for Software Selection?

(c) Explain various activities and processes involved in software quality Assurance (SQA)?

Roll No.

B.C.A.

SECOND SEMESTER EXAMINATION, 2015-16

SYSTEM ANALYSIS AND DESIGN

Time : **3 Hours** Max. Marks : **60**

Note : **(i)** Attempt **ALL** questions.
(ii) Choices are given in each question set.

1. Attempt any **Four** of the following questions: **3 x 4 = 12**

(a) What is a System? Explain various Characteristics of a System?

(b) Using an example explain formal and informal Systems?

(c) Explain various types of Feasibilities used to evaluate proposed systems?

(d) Explain various operations carried out at System Maintenance Phase?

(e) Discuss the concept of MIS and DSS. How are they related? How do they differ?

(f) Why is a system proposal so crucial for system design? Explain.

2. Attempt any **Four** of the following questions: **3 x 4 = 12**

(a) Explain various qualities and role of systems analyst?

(b) Explain various types of Questionnaires? Design a questionnaire containing 10 questions to collect patient information in Hospital Management System.

(c) Explain various information gathering tools.

(d) What is the System Development Life Cycle (SDLC)? How does it relate to systems analysis?