

January 2016

**Bachelor of Computer Application (BCA) Examination
V Semester**

Software Engineering

Time : 3 Hours]

[Max. Marks : 40

Note : Attempt all questions. All questions carry equal names.

1. (a) Define system? Explain its elements?
(b) Explain the skills of system analyst.

OR

- (a) What are the characteristics of a business system?
(b) Why do we need SDLC?
2. (a) What are various sources of project requests?
(b) Why do we need system requirements specification? Explain its structure.

OR

What is cost/benefit analysis? Explain various steps of cost/benefit determination.

3. (a) Differentiate structure analysis and structured design.
(b) Construct a DFD for a simple restaurant order processing system.

OR

- (a) Explain elements of data oriented design.
(b) Prepare object oriented design for a system of student admission done at your college.
4. (a) What is debugging? Explain its methods.
(b) What is a test case? What is its usefulness.

OR

- (a) Explain the activities of software quality assurance.
(b) Explain the role of stubs and drivers in testing.
5. (a) What are the key considerations of system implementation?
(b) Explain methods of software selection.

OR

- (a) Explain various category of software maintenance with example.
(b) What are the methods/criteria for hardware evaluation?