

Roll No.....
Total No. of Questions: [09]

Total No. of Printed Pages: [01]

B.Sc. (IT) (Semester – 4th)
SYSTEM ANALYSIS AND DESIGN
Subject Code: BITE1418
Paper ID: [130421]

Time: 03 Hours

Maximum Marks: 60

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A

(2 marks each)

- Q1. Attempt the following:
- a. Specify the role of a system analyst.
 - b. Differentiate between verification and validation.
 - c. Give few examples of structured analysis tools.
 - d. What is the difference between analysis and design?
 - e. How important is the informal information system in system analysis?
 - f. Who performs regression testing?
 - g. Distinguish between initial investigation & feasibility study
 - h. How significant is the design documentation?
 - i. Distinguish between system maintenance and enhancement.
 - j. List the 4 types of system maintenance.

Section – B

(5 marks each)

- Q2. Describe the process of design. Also discuss logical & physical design
- Q3. A number of activities are carried out under implementation. Elaborate.
- Q4. Differentiate between Alpha & Beta Testing.
- Q5. Why do we test systems? How important is testing?
- Q6. Elaborate on the steps taken in system testing that lead to the user's acceptance of the system

Section – C

(10 marks each)

- Q7. Analyze the significance of various phases of SDLC with the aid of block diagram.
- Q8. a) Why is unit testing important? Explain the various types of unit testing.
b) What techniques do you use to ensure that integration testing is comprehensive and effective?
- Q9. Discuss as a cases study, the systems analysis and design for a business modelling learning experience.