Roll No…….. **Total No. of Printed Pages: [01]**
Total No. of Questions: [09]

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.