Roll No. ⬛⬛⬛⬛⬛⬛⬛⬛⬛⬛⬛   **Total No. of Pages : 02**

Total No. of Questions : 07

B.Sc.(IT) (2013 & 2014)   (Sem.–3)
SYSTEM ANALYSIS AND DESIGN
Subject Code : BS-207
Paper ID : [B0412]

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

INSTRUCTION TO CANDIDATES :
1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains SIX questions carrying TEN marks each and a student has to attempt any FOUR questions.**

SECTION-A

1. **Answer briefly :**

   a. What is methodology?

   b. What is the role of system analyst?

   c. Define first level factoring.

   d. Define prototyping.

   e. Define functional cohesion.

   f. Explain change control.

   g. Discuss the use of COCOMO model.

   h. What is software crisis?

   i. Differentiate between decision tree and decision table.

   j. Define data dictionary.

SECTION-B

2.   Discuss the Case Study of Inventory management system. Explain the pros and cons of the existing system from the traditional system in the form of the DFD and all possible assumptions.

3.   a.   What is software requirement specification (SRS)? What are the characteristics of good SRS document? Explain.

     b.   Distinguish between technical, operational and economic feasibility with examples.

4.   a.   Differentiate between cohesion and coupling.

     b.   Draw the sequence diagram to renew book from library.

5.   a.   Explain the main strategies to plan for risk containment.

     b.   What is the use of PERT charts in project scheduling? Explain.

6.   a.   Explain system acceptance criteria.

     b.   Differentiate between static and dynamic modeling.

7.   What is CASE environment? Explain its benefits.