Total No. of Questions : 07

BCA (2011 & onward) (Sem.–3)
SYSTEM ANALYSIS & DESIGN
Subject Code : BSBC-301
Paper ID : [B0228]

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. **Write Briefly :**

   a) Define finite state machine.

   b) Define code generator

   c) What is software maintenance?

   d) What is system testing?

   e) Define Petri Nets

   f) What is Data Flow diagrams?

   g) How is complier different from interpreter?

   h) Difference between Black box and white box testing.

   i) What is cohesion?

   j) What is debugger?

SECTION B

2. Describe design process, design levels and their objectives.

3. Discuss software specifications and classifications in system analysis.

4. What is software design? Explain the process of designing software.

5. What is the difference between verification and validation in software testing?

6. What is the importance of testing? How is it carried out?

7. Write a short note on fundamental of coding. What should be the criteria for selection of programming language?