

Roll No.

Total No. of Pages : 02

Total No. of Questions : 07

BCA (2013 & 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.
3. Use of non-programmable scientific calculator is allowed.

SECTION-A

1. Answer briefly :

- a. What are consistency checkers?
- b. What is risk identification?
- c. Define first level factoring.
- d. Define unit testing.
- e. Define functional cohesion.
- f. Explain change control.
- g. Discuss quality metrics.
- h. Differentiate between unit and integration testing.
- i. Differentiate between error and failure.
- j. Differentiate between verification and validation.

SECTION-B

2. a. Differentiate between functional and non-functional requirements. (5)
b. Differentiate between project and product. (5)
3. a. What are the characteristics that are used to classify the outputs? Also differentiate between external and internal outputs. (5)
b. What are the important considerations for user interface design? Explain. (5)
4. What is software requirement specification (SRS)? What are the characteristics of good SRS document? Explain. (10)
5. a. Differentiate between transaction analysis and transform analysis. (5)
b. Draw the sequence diagram to renew a book from library. (5)
6. a. Explain the use of structure chart in structured design with a suitable example. (5)
b. How to construct a checklist for design review? Explain. (5)
7. Explain the following : (2×5)
 - a. Test plan.
 - b. Integration testing.