

## SECTION-B

### खण्ड-ब

Marks : 50

Time : 1½ Hours

After depositing OMR Sheet of Section-A with invigilator, the candidates are required to answer **one** question from each Unit (each question in **250** words) in a separate Answer-book provided to them. **All** questions carry equal marks.

खण्ड-अ की ओ.एम.आर. शीट पर्यवेक्षक को जमा कराने के पश्चात परीक्षार्थी खण्ड-ब की प्रत्येक इकाई से एक प्रश्न का उत्तर दी गई उत्तर-पुस्तिका में देंगे। प्रत्येक प्रश्न का उत्तर लगभग 250 शब्दों में दिया जाना है एवं सभी प्रश्नों के अंक समान हैं।

### UNIT-I

1. What is meant by system? Explain the basic elements of the system.
2. Explain different types of system and their behaviour.

### UNIT-II

3. Explain SDLC.
4. Write short notes on the following :
  - (a) System analyst
  - (b) Linear and prototype approach.

### UNIT-III

5. Write short notes on the following :
  - (a) File organisation
  - (b) Feasibility study
  - (c) Input-output form design.
6. Explain various tools of information gathering.

## BCA-304

Third Year B.C.A. Examination, 2013

### SYSTEM ANALYSIS & DESIGN

Paper : BCA-304

Time : Three Hours

Maximum Marks : 75

Attempt any *five* questions

All questions carry equal marks.

1. Distinguish between the following :
  - (a) Physical and Abstract system.
  - (b) Open and Closed system.
  - (c) Formal and Informal system.

3×5=15
2. (a) Elaborate on the Technical and Interpersonal skills required of System Analyst.  
(b) What is the difference between Analysis & Design ?

10+5=15
3. What is the SDLC ? How does it relate to System analysis ?

15
4. (a) Describe the concept and procedure used in constructing DFDs.  
(b) Describe Feasibility study.

7+8=15
5. Specify the purpose of System testing. What performance criteria are used for System testing ?

15
6. (a) List and briefly explain the control measures in System security.

(b) Describe major threats to System security.

10+5=15

7. Discuss in detail the *pros* and *cons* of various tools used in System analysis.

15

8. Explain the following :

(a) Selection of Hardware and Software.

(b) Logical and Physical view of data.

8+7=15