



**PR-603**

Seat No. 1756

**B. C. A. (Sem. IV) Examination**

**April / May – 2016**

**BCA-403 : System Analysis & Design**

Time : 3 Hours]

[Total Marks : 70

- 1 (a) Attempt any six : 6
- (i) What is prototype ?
  - (ii) What is system ?
  - (iii) Define Blackbox.
  - (iv) What is logical DFD ?
  - (v) What is Decision Tree ?
  - (vi) Define : Sub system
  - (vii) List out the symbol of DFD.
- (b) Attempt the following : (any two) 12
- (i) Discuss the analysis phase of SDLC.
  - (ii) What is system analyst ? Discuss the role of system analyst.
  - (iii) Describe Fact Finding Techniques in details.

- 2** (a) Answer the following : (any **five**) **5**
- (i) What is Data Capture ?
  - (ii) What is facted code ?
  - (iii) What is validation ?
  - (iv) Pay slip are external output ? – True/false
  - (v) Which are the media of output ?
  - (vi) What is case tools ?
- (b) Attempt the following : (any **two**) **12**
- (i) Discuss all the components of case tools.
  - (ii) Discuss all the principles of code design.
  - (iii) What is Input Design ? Explain data validation in Input Design.
- 3** (a) Attempt any six : **6**
- (i) What is full form of VTOC ?
  - (ii) What is coupling ?
  - (iii) What is cohesion ?
  - (iv) What is peak load testing ?
  - (v) What is Pilot System ?
  - (vi) Define Conversion.
  - (vii) \_\_\_\_\_ method runs new system and old system concurrently.

(b) Attempt the following : (any **two**) **12**

- (i) Explain HIPO chart with example.
- (ii) What is Training ? Discuss the method of training.
- (iii) Write a short note on documentation.

**4** Draw and discuss the different level of DFDS **17**  
for "Library System" in details.

**OR**

**4** (a) Attempt any **two** : **8**

- (i) Write down different between logical DFD and physical DFD.
- (ii) Short note on Decision Tree.
- (iii) Discuss : System Prototype method.

(b) Attempt the following : **9**

- (i) What is DFD ? Explain the rules for drawing DFD.
- (ii) Explain role of System Analyst.
- (iii) Write down type of Information System.