



GAE-673

Seat No. 997

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

March / April – 2017

BCA-403 : System Analysis & Design

Time : 3 Hours]

[Marks : 70

- 1 (a) Attempt the following : (any three) 6
- (1) What is decision table ?
 - (2) What is subsystem ? Give example.
 - (3) In which situation system prototype method is useful ?
- (b) Data dictionary contains the information 1
about the process of a system. (True / False)
- (c) Answer the following : (any two) 10
- (1) List out phases of SDLC. Explain any three phases of it.
 - (2) Explain different fact gathering techniques.
 - (3) What do you mean by system and system analyst ? Explain the characteristics of system.
- 2 (a) Attempt the following : (any two) 6
- (1) Define Data capture.
 - (2) List out different types of code.
 - (3) List out different types of output.

(b) Answer the following : (any three) 12

- (1) What is form ? What is purpose of form ? Explain form design consideration.
- (2) Explain the principles of code decision.
- (3) Write short note on data validation.
- (4) Explain design principles of output.

3 (a) Attempt the following : (any three) 6

- (1) Define : Cuppling, peak load testing.
- (2) What is HIPO diagram ?
- (3) What is documentation ? Give types.
- (4) Why training is important before implementation of software ?

(b) Answer the following : (any two) 12

- (1) Discuss conversion method in detail.
- (2) List out different software design principles and explain coupling and cohesion.
- (3) Explain Warnier-Orr diagram with example.

4 (a) Draw context level and all other level of DFD for library system. 17

OR

(a) Draw and discuss DFD of Payroll system. 17
