

(b) Why cost of adding functionality to a system after it has been put into operation is greater than providing similar functionality when software is originally developed?

Paper ID & Roll No. to be filled in your Answer Book

Roll No.

**BCA (Second Semester)**  
**Even Semester Examination, 2015**  
example  
**SYSTEM ANALYSIS AND DESIGN**

Time: 3.00 Hours]---X----

[Max. Marks: 70

Note: Attempt any Two of the following: (2×5=10)

1. (a) Sketch the development life cycle of a system, along with brief description of its phases.
- (b) What is feasibility study of a system? Highlight the different types of feasibility study report to develop a new system.
- (c) How CASE tools assist a design methodology?

Note: Attempt any Four of the following: (4×5=20)

2. (a) Explain the model of cost estimation of a new system and list the role of different factors affecting the cost of the system.
- (b) Describe the different methods of information gathering to develop a new system.
- (c) Illustrate the usage of following tools:
  - (i) Data Dictionary
  - (ii) Decision Tree
- (d) Explain to evaluate the performance of a system.

BCA-203

(3)

(90)  
(91)

BCA-203 / 350 / 2

- (e) What is the purpose of an Inventory Control System? Can an Inventory Control System also be a Decision Support System?

**Note:** Attempt any Two of the following: (2×10=20)

3. (a) List the role of design to a new system, Differentiate between screen design and form design.
- (b) What is system analysis? Make the analysis report of the university entrance exam system.
- (c) What is a model? Describe the difference between the logical model and physical model. Why the data modeling is required? Discuss the usefulness of ER diagram to represent data modeling.

**Note:** Attempt any Four of the following: (4×5=20)

4. (a) Describe the process of system documentation with example of electronic payment system.
- (b) List the role of system administrator, how the system analyst construct the security measures for data and software in a new system?
- (c) Sketch the DFD of an automated university for registration, admission, teaching, examination and evaluation process.
- (d) Differentiate between pilot and parallel methods of system implementation along with the usage of system's maintenance.
- (e) What are advantages of top-down problem solving? Explain how the linear cycle meets topdown problem solving requirements?