NEW

2016

BCA

2nd Semester Examination

SYSTEM ANALYSIS AND DESIGN

PAPER—1205

Full Marks : 100

Time : 3 Hours

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Answer Question No. *1* and any *four* from rest.

1. Answer any *five* questions :   5×2

   (a) Define DFD.

   (b) What do you mean by open system & closed system ?

   (c) What do you mean by the term Gap analysis ?

(d) Define Actor.

(e) What is System Planning ?

(f) What is validation ?

(g) What is fault of a system ?

2. (a) What is DSS ? Mention the different features of DSS ?

2+6

(b) Describe Office Automation and Expert System ?

3+4

3. (a) Is it necessary to follow system analysis and design methodologies whom building an information system ? Why not just build the system in any random manner ? What would happen ? 5

(b) Describe the Six phases of SDLC. 10

4. (a) Describe a system analyst's various interpersonal, informational and decision roles. Write a short notes on character and either of the System Analysis.

6+5

(Continued)

(b) What are the common impacts of CASE on individuals within organisation. 4

5. (a) List and discuss different types of project feasibility factors. Which factor is most important and why? 6+2

(b) What is 'Planning Game' in extreme programming? How requirements are determined in this methodology. 2+5

6. (a) What is decomposition? What is balancing? How can you determine if DFDs are not balanced? What would be the consequences if we use DFDs that are not balanced? 2+2+2+3

(b) Compare data flow diagram with use case diagram. 6

7. (a) Discuss various categories of cost/benefit and procedure for cost/benefit analysis? 8

(b) Distinguish between (any *two*) : $2 \times 3\frac{1}{2}$

   (i) Data Security and Data Integrity ;

   (ii) Rollback and Roll forward ;

   (iii) Physical DFD & Logical DFD.

[Internal Assessment — 30]

———