NEW

2017

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 system and its various components.

   (b) What is Hard and Soft system.

(c) What is OAS ?

(d) What is system planning ?

(e) What is verification and validation ?

(f) Define ERD ?

(g) What are the components of DFD ?

2. (a) What is the role of users during system analysis and design ?   **4**

(b) Write the difference between Manual System and Automated System.   **4**

(c) List some criteria for good design.   **3**

(d) Write the role of DBA.   **4**

3. (a) Why is a life cycle needed for the development of information system.   **3**

(b) Explain the problems of top down design approach. How can it be resolved ?   **3+3**

(c) Write the objectives of database design.   **3**

(d) Write the difference between Validation and Verification. 3

4. (a) What id Feasibility study ? Why we need feasibility Study/Analysis ? 2+3

(b) Mention the different types of feasibility factors that are checked before developing a system. 10

5. (a) What is "Planning Game" in extreme programming ? How requirements are determined in this methodology. 2+6

(b) Discuss the different phases of SDLC. 7

6. (a) What is balancing DFD ? How can you determine whether DFDs are balanced or not ? 2+3

(b) Draw a DFD upto third level of "Online College Admission System" along with context diagram.

[(3+2+2)+3]

7. Write short notes on (any *three*) : 3×5

(a) PERT.

(Turn Over)

(b) Configuration Management.

(c) Software Maintenance.   ·

(d) Quality Assurance.

(e) Expert System.

[Internal Assessment — 30 Marks]

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