7. (a) Explain software crisis from programmers point of view. 2½

   (b) Explain software crisis from user point of view. 2½

   (c) Explain operational feasibility. 2½

   Unit-IV

8. Explain quality assurance implementation and software maintenance. 7½

9. (a) What is difference between Logical model & Physical model. 4

   (b) Explain importance of data flow diagram and its limitation. 3½

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B.Sc. (Part-I) Examination, 2015
(New Syllabus)
COMPUTER SCIENCE
Third Paper
(Elements of System Analysis & Design)

Time Allowed : Three Hours]   [Maximum Marks : 50

Note : Answer five questions in all. Question No.1 is compulsory. Attempt one question from each of the four Units. Electronic calculators are allowed.

1. Give short answers of the following: 2×10=20

   (a) Define System.

   (b) Explain the role of system analysis.

   (c) Explain useful life of system.

   (d) What is importance of model.

   (e) Write the importance of project feasibility.

P.T.O.

(2)

(f) Explain the importance of structured design.

(g) What is difference between Data and Information.

(h) Explain Software quality.

(i) Explain system reliability.

(j) Explain system maintenances.

Unit-I

2. (a) What are the characteristics of a good information system?   3

(b) What special skills should a system analyst posses?   2

(c) Why should a system analyst be able to communicate well.   2½

3. (a) Explain the following elements of the system-   4

     (i) Input

     (ii) Output

     (iii) Boundaries

     (iv) Environment

(3)

(b) Explain the following systems-

     (i) Physical Or Abstract system   1½

     (ii) Open or closed system   1½

     (iii) Real Time system   1

Unit-II

4. (a) Explain system development life cycle and its various phases.   5

(b) Explain the Importance of preliminary investigation for system development. 2½

5. (a) Write short notes on   4

     (i) System Testing

     (ii) System requirements.

(b) Write the principles of system development.   3½

Unit-III

6. (a) What are the elements of system planning.   5

(b) Distinguish between methodology and a process.   2½