Bachelor of Computer Applications 3rd Semester Examination

1127

INFORMATION SYSTEM DESIGN AND IMPLEMENTATION
Paper : BCA–16–303

Time : 3 Hours]   [Max. Marks : 65

Note :– Attempt *five* questions in all, including Q. 9 in Section E, which is compulsory and taking *one* each from Sections A, B, C and D.

Section–A

1. Define System. Give examples. Explain the characteristics and components of a system. Describe any real life system. What are different types of systems ?   13

2. Who is a system analyst ? What is the role of a system analyst in system development ? Explain the attributes of a good system analyst. Explain the life cycle of system development. 13

Section–B

3. How is Data Flow Diagram (DFD) useful in analyzing the data and processes used in a system ? Draw a DFD for Hospital management system. Make necessary assumptions if required. 13

4. What is information system planning ? Discuss the important fact finding techniques that are used by the system analyst for determining the user requirements, during the system development process. 13

Section–C

5. (a) What is the importance of feasibility study ? Briefly discuss various steps in it.

(b) What is Software system testing ? Explain why different types of testing are required for a software system. 6,7

6. What is Software Quality Assurance (SQA) ? What are its goals in system life cycle ? Explain different levels of SQA. 13

Section–D

7. What is adaptive maintenance ? Explain, how is it different from corrective maintenance ? Explain at least four recent trends in reducing software system maintenance costs. 13

8. Write short notes on the following :

   (a) Vendor Selection

   (b) Hardware/Software Selection 6,7

Section–E

(Compulsory Question)

9. (a) What is man-made information system ?

   (b) How would an analysis determine the user's needs for a system ?

   (c) A system leads to a lot of planning and less of implementation. Do you agree ?

(d) What are the advantages and uses of structured English ?

(e) What is the importance of end-user training ?

(f) What is the difference between logical and physical design ?

(g) Define a Project.   6×2,1