Sr. No. 301602

December 2023

BBA (GEN) 6th Semester

System Analysis and Design (BBA-GEN-602)

Time: 3 Hours

Max. Marks:75

Instructions:

1. *It is compulsory to answer all the questions (1.5 marks each) of Part -A in short.*
2. *Answer any four questions from Part -B in detail.*
3. *Different sub-parts of a question are to be attempted adjacent to each other.*

PART –A

Q1 (a) Differentiate between technical feasibility & operational feasibility of a project. (1.5)

(b) List any two common errors that are made while drawing data flow diagrams.? (1.5)

(c) Why do we need to design software architecture? (1.5)

(d) What is the purpose of system testing? (1.5)

(e) What is the significance of data dictionary? (1.5)

(f) What is decision tree? (1.5)

(g) What is fact analysis? (1.5)

(h) What do you mean by prototyping? What is its need? (1.5)

(i) What is structured walkthrough? (1.5)

(j) What are the contents of a test plan? (1.5)

PART-B

Q2 (a) What is system? Explain characteristics and types of system. (6)

(b) Explain system development life cycle (SDLC) in detail. (9)

Q3 (a) What are the benefits of performing feasibility study? Discuss various techniques for gathering requirements for the system development. (9)

(b) Write an explanatory note on Gantts Charts. (6)

Q4 (a) Draw a labelled DFD for University result Management System. (9)

(b) How logical design of a system is mapped to the physical design of system? (6)

Q5 (a) What is distributed data processing? Explain in detail how will you design a distributed data base? (9)

(b) Write an explanatory note on state transition diagrams in detail. (6)

Q6 (a) Construct an E-R diagram for a hospital with a set of patients and a set of medical doctors. Associate with each patient a log of the various tests and examinations conducted. (9)

(b) Discuss in detail the role of a system analyst in design of a system. (6)

Q7 (a) What do you mean by cost- benefit analysis in system design? Illustrate cost-benefit analysis with an example. (9)

(b) Discuss in detail event based real time analysis tools. (6)