Roll No. 16064018 Total No. of Printed Pages: [01]

Total No. of Questions: [09]

B.Sc.(IT) (Semester –4th)

SYSTEM ANALYSIS & DESIGN

SUBJECT CODE: BITE1-418

Paper ID: [130421]

Time: 03 Hours Maximum Marks: 60

Instruction for candidates:

1. Section A is Compulsory.
2. Attempt any FOUR questions from Section B.
3. Attempt any TWO questions from Section C.

Section – A (2 marks each)

Q1. a. Define system.

b. What are the various elements of a system?

c. Name some information gathering tools.

d. Name some media devices which are available for providing computer based output.

e. Give an example of decision tree.

f. What are the main characteristics of a Training manual?

g. What is the need of system testing?

h. Name few training aids used in implementation process.

i. How do you create test files for testing new programs during implementation process?

j. What are abstract systems?

Section – B (5 marks each)

Q2. Write a detailed note on various types of system.

Q3. Describe in detail the role of a systems analyst.

Q4. Discuss the various stages of System Design.

Q5. What is the significance of using testing Alpha and beta?

Q6. Discuss the primary activities of system maintenance procedure.

Section – C (10 marks each)

Q7. Discuss in detail the functionality of each state of SDLC.

Q8. Discuss the methodology used in performing Unit, System, Integration, acceptance and regression testing.

Q9. What is significance of Post implementation maintenance? How is it carried? Discuss.

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Total No. of Questions: [09]

Total No. of Printed Pages: 1

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Branch: BSc.(IT) (Semester – 4th)
Subject Name: -System Analysis And Design
Subject Code: BITE1418
Paper ID: 130421

Time: 03 Hours **Maximum Marks: 60**

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A **(2 marks each)**

Q1. Attempt the following:

a. What is the difference between system analysis and system design?
b. What is a system and its characteristics?
c. Which testing is performed after the code is updated or changed?
d. What is documentation and why is it done?
e. What is the benefit of using structured analysis tools?
f. What is acceptance testing?
g. What is parallel run and why is it used?
h. What are the challenges in system maintenance?
i. What is the difference between open-ended and close-ended questions?
j. What is the difference between system documentation and user documentation?

Section – B **(5 marks each)**

Q2. Why the role of the system analyst is crucial? What characteristics should system analysts possess?

Q3. What is input-output design and what are its objectives?

Q4. Differentiate between the following:

a) Unit testing and system testing.
b) Alpha testing and beta testing.

Q5. What is a system maintenance and what are its types?

Q6. What are various information-gathering tools? Which tool is most suitable to find day-to-day activities?

Section – C **(10 marks each)**

Q7. What is the importance of SDLC? Write in detail all its phases.

Q8. What is system design? Discuss the tools used for the system design along with their advantages.

Q9. What is the system implementation process? Explain various system implementation methods.