

S-739

Total Pages : 3

Roll No. -----

BCA-12

System Analysis and Design

Bachelor of Computer Application (BCA)

4th Semester, Examination 2022(Dec.)

Time: 2 Hours

Max. Marks: 70

Note : This paper is of Seventy (70) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

Section – A

(Long Answer – type questions)

Note: Section 'A' contains Five (05) long-answer-type questions of Nineteen (19) marks each. Learners are required to answer any two (02) questions only.

[2 x 19 = 38]

P.T.O.

- Q.1. What is system? Explain the characteristic and types of system.
- Q.2. What do you understand by system testing? Explain different types of testing.
- Q.3. Explain the cost-benefit analysis with an example.
- Q.4. What is SDLC? Discuss in detail its phases.
- Q.5. Why maintenance important in software? What are the different types of system maintenance? Explain them briefly.

Section – B

(Short-answer-type questions)

Note: Section 'B' contains Eight (08) short-answer-type questions of Eight (08) marks each. Learners are required to answer any Four (04) questions only.

[4 x 8 = 32]

- Q.1. Distinguish between white-box and black-box testing methods.
- Q.2. What are the limitations of the Waterfall model?
- Q.3. Define System Audit. Also discuss the types of auditors.
- Q.4. What are the elements of a system? Explain.
- Q.5. What is prototyping? Briefly explain the benefit of prototyping in software development.
- Q.6. Differentiate between software verification and validation.
- Q.7. Briefly explain the important components of an MIS.
- Q.8. What do you understand by Risk analysis? And discuss why it is required?
