



বিদ্যাসাগর বিশ্ববিদ্যালয়

VIDYASAGAR UNIVERSITY

BCA

2nd Semester Examination 2022

SYSTEM ANALYSIS AND DESIGN

PAPER—1205

Full Marks : 100

Time : 3 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Group – A

Answer any four questions.

4×15

1. What is Feasibility study? What is the necessity of it? Mention the different types of feasibility factors that are checked before developing a system ?
2+3+10
2. Explain spiral model for software life cycle and write its various activities in each phase. Compare data flow diagram with use case diagram.
10+5

3. What is the importance of Testing? Discuss the use of System Testing. Write the difference between validation and verification? 3+7+5
4. What is DSST? Mention the different features of DSS? What is structure analysis? 4+7+4
5. Write short note on the following topics (any two) 2×7.5
 - (a) Evolutionary Model.
 - (b) Decision Tree.
 - (c) Decision Table.
6. What is documentation? Why we need documentation? Briefly discuss the process of documentation. What are the role of DBA? 2+3+5+5
7. Explain the design principles. What is the importance of user manual in design? Explain Quality Assurance. 5+5+5
8. What is the purpose of information gathering tools? Discuss various methods of information gathering. What is software implementation process? 5+5+5

Group – B

- Answer any one question. 1×10
9. What do you mean by quality assurance? What are the characteristics of ISO 9002? 4+6
 10. What is the role of users during system analysis and design? Write the difference between Manual System and Automated System? What is Hard and Soft system? 4+4+2

(Internal Assessment : 30)