# ATMIYA UNIVERSITY
## SEMESTER END EXAMINATION (REGULAR / SUPPLEMENTARY) SUMMER – 2022
## Faculty of Science
## B.C.A & B.Sc. Information Technology
### 18BCACC403 – System Analysis & Design

*Duration of Exam – 3 hrs*          *Semester – IV*          *Max. Marks – 70*

### Part A (10x1= 10 marks)

Answer **ALL** questions

| | |
|---|---|
| 1. | Write name of second phase of SDLC. |
| 2. | Last Phase of SDLC is _____ |
| 3. | In Bubble chart Bubble or Circle indicates Table. (True / False) |
| 4. | In Test Case [I,S,O], I stands for _____. |
| 5. | Draw symbols of use case diagram. |
| 6. | Reusability achieved in OOP by ____. |
| 7. | Error / LOC is _____ oriented metrics. |
| 8. | What is defect? How it differs from error? |
| 9. | Complexity as well as size included in _____. |
| 10. | Process in DFD is written in _____. |

### Part B (5x5= 25 marks)
Answer **ALL** questions

| | |
|---|---|
| 6a. | State Role of System Analyst. |
| OR | |
| 6b. | Write characteristics of system. |
| | |
| 7a | Explain linear sequential Model. |
| OR | |
| 7b | Explain Big Bang Model. |
| | |
| 8a | Write steps to draw bubble charts in visio. |
| OR | |
| 8b | Write steps to make timeline chart in Ms. Project. |
| | |
| 9a. | Explain Concept of Automated Testing. |
| OR | |
| 9b. | Compare and Contrast Static Testing with Dynamic Testing. |
| | |
| 10a. | Write DFD for Vishal travel agency based on your experience of any travel agency. |
| OR | |
| 10b | Determine number of modules using Structure / Hierarchy chart for "Neeta Prasuti |

| | Grah" |
|---|---|
| | |

## Part C (5x7= 35 marks)
### Answer ALL questions

| 11a. | Explain third stage of SDLC. |
|---|---|
| OR | |
| 11b. | Who approves system projects? Why? |
| | |
| 12a. | Explain Iterative Model. |
| OR | |
| 12b. | Explain V- Model. |
| | |
| 13a. | What is project tracking? How you will do using Ms. Project. |
| OR | |
| 13b. | Explain function Oriented Metrics. |
| | |
| 14a. | Compare and Contrast white box and black box testing. |
| OR | |
| 14b. | Compare and Contrast alpha and beta testing. |
| | |
| 15a. | Draw DFD for hospital management system. You can choose any name and functions of hospital on the basis of your and knowledge and experience. |
| OR | |
| 15b. | Draw an Activity Diagram for Vishal Travel Agency. |
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