**Question Bank – System Analysis & Design –– Sem - 4**

**Unit -1**

|  |
| --- |
| 1. Write System Types.   **Physical Vs. Abstract**  **Tangible Vs. Intangible**  **Open Vs. Closed**  **Man Made Information System** |
| 1. Explain System Types |
| 1. Explain System Characteristics. |
| 1. Explain Elements of System Analysis |
| 1. Write Role and Attribute of System Analyst. |
| 1. What is the role of Program Analyst? |
| 1. What is the role of Designer? |
| 1. What is the role of Information Analyst. |
| 1. Explain Computer Based Information System. |
| 1. Why System Projects? Or Explain types of benefits of Software. |
| 1. Write short note System Development Life Cycle. |
| 1. Explain Preliminary Investigation of SDLC. |
| 1. Explain Determination of requirement of SDLC. |
| 1. Explain last phase of SDLC. |
| 1. Explain Maintenance phase. |
| 1. Explain Implementation of Software in last phase of SDLC. |
| 1. Draw diagram of SDLC. |
| 1. What is the deliverable of second phase of SDLC? |
| 1. What is the name of second phase of SDLC? |
| 1. Write Benefits of Object Oriented Programming. |
| 1. Write Object Oriented Concepts. |
| 1. Write short note on Unified Modeling Language (UML). |
| 1. Write short note on use case diagram. |
| 1. Discuss Class “Furniture”. |
| 1. Draw Symbols of Use case diagram and explain use of it. |
| 1. Write short note on class diagram. |
| 1. Draw Symbols of Activity diagram and explain use of it. |
| 1. What is full form of SRS document? |
| 1. Write name of four type of Maintainance. |
| 1. Write four type of Evaluation types. |
| 1. List out fact finding techniques. |
| 1. List out any three feasbility study. |
| 1. Write Definition of System. |

**Unit -3**

|  |
| --- |
|  |
| 1. Write short note Software Engineering: A Layered Technology. |
| 1. According to “software engineering A Layered Technology” compare and contrast Method and Process. |
| 1. Explain Information Engineering in Waterfall Model. |
| 1. Write short note on Waterfall Model. |
| 1. Write short note on Iterative Model. |
| 1. Compare and Contrast V-Model Vs Waterfall Model. |
| 1. Explain Spiral Model. |
| 1. Explain Big Bang Model. |
| 1. Explain Prototyping Model. |
| 1. Explain Object Oriented Paradigm |
| 1. Write short note on V Model. |
| 1. Which model gives facitlity to work with big project size and small team? How? |
| 1. Write another name of waterfall model. |
| 1. Which model contains Risk Analysis as an activity? |
| 1. Which model is more realistic due to planning and Risk Analysis? Why ? |
| 1. Which model reuse already created functionality? |
| 1. Which model prepares test case documentation in analysis and design phase? |
| 1. Why V model is not suitable for big projects? |
| 1. Write limitations of waterfall model. |
| 1. Write the name of top layer of Software Engineering layered approach. |

**Unit -4**

|  |
| --- |
| 1. Draw symbols of Data Flow Diagram and write its use. |
| 1. Write rules to draw DFD. |
| 1. Write short note on Ms. Visio. |
| 1. Write short note on User Interface Flow Diagram for your project. |
| 1. Explain Concept of Project Estimation. |
| 1. What is E ? what is the unit of E ? |
| 1. Write short note on Function Point and FP based metrics. |
| 1. Write short note on LOC based Metrics. |
| 1. Why Project Economics should be considered in software development? |
| 1. What is the use of PERT chart ? What is CPM ? |
| 1. Write short note on Network Diagram. |
| 1. Write short note on MS Project. |
| 1. Write short note on ISO for Quality Assurance. |
| 1. Write short note on Six Sigma for Quality Assurance. |
| 1. What is Timeline chart ? How to construct it? |
| 1. What is another name of Data Flow Diagram? |
| 1. What is the difference in error and defect? |
| 1. Write activities of Project Management. |

**Unit – 5**

|  |
| --- |
| 1. Write three levels of testing. |
| 1. Write techniques of unit testing. |
| 1. Write techniques of Integration testing. |
| 1. Write techniques of System testing. |
| 1. Explain Levels of Testing. |
| 1. Write Difference between White Box and Black Box testing. |
| 1. Write Difference between Alpha and Beta Testing. |
| 1. What is Software failure? |
| 1. What is test case? |
| 1. What is test script? |
| 1. What is test suit? |
| 1. What is software fault how it differ from error? |
| 1. Explain Testing artifacts. |
| 1. Write Difference between static and dynamic testing. |
| 1. Write short note on testing levels and techniques. |
| 1. What is Automated Testing? Explain its benefits. |
| 1. Giving an example of software testing tools explain automated testing. |
| 1. Explain concept of Freeware, Shareware, License tool and open source. |

**Unit – 2**

|  |
| --- |
| 1. Draw use case diagram for “Vijay Khaman House”. (use your assumptions or experience) |
| 1. Draw use case diagram for “Vishal Travel Agency”. (use your assumptions or experience) |
| 1. Draw use case diagram for “Hospital Management System”. (use your assumptions or experience) |
| 1. Draw Structured Chart for “Vriani Science College”. (use your assumptions or experience) |
| 1. Draw Structured Chart for “Vishal Travel Agency”. (use your assumptions or experience) |
| 1. Draw Structured Chart for “Vijay Khaman House”. (use your assumptions or experience) |
| 1. Draw Data Flow Diagram (Bubble Chart) for “Vishal Travel Agency”. (use your assumptions or experience) |
| 1. Draw Data Flow Diagram (Bubble Chart) for “Hospital management System”. (use your assumptions or experience) |
| 1. Draw Data Flow Diagram (Bubble Chart) for “Vijay Khaman House”. (use your assumptions or experience) |
| 1. Draw Class Diagram for “Hospital Management System.” |
| 1. Draw Class Diagram for “Vijay Khaman House.” |
| 1. Give the chart name which is similar to site map. |
| 1. Draw Starting and Ending symbol of Activity Diagram. |