Question Bank – System Analysis & Design — Sem - 4

Unit -1

1. Write System Types.
2. Explain System Types
3. Explain System Characteristics.
4. Explain Elements of System Analysis
5. Write Role and Attribute of System Analyst.
6. What is the role of Program Analyst?
7. What is the role of Designer?
8. What is the role of Information Analyst.
9. Explain Computer Based Information System.
10. Why System Projects? Or Explain types of benefits of Software.
11. Write short note System Development Life Cycle.
12. Explain Preliminary Investigation of SDLC.
13. Explain Determination of requirement of SDLC.
14. Explain last phase of SDLC.
15. Explain Maintenance phase.
16. Explain Implementation of Software in last phase of SDLC.
17. Draw diagram of SDLC.
18. What is the deliverable of second phase of SDLC?
19. What is the name of second phase of SDLC?
20. Write Benefits of Object Oriented Programming.
21. Write Object Oriented Concepts.
22. Write short note on Unified Modeling Language (UML).
23. Write short note on use case diagram.
24. Discuss Class "Furniture".
25. Draw Symbols of Use case diagram and explain use of it.
26. Write short note on class diagram.
27. Draw Symbols of Activity diagram and explain use of it.
28. What is full form of SRS document?
29. Write name of four type of Maintainance.
30. Write four type of Evaluation types.
31. List out fact finding techniques.
32. List out any three feasbility study.
33. Write Definition of System.

Unit -3

1. Write short note Software Engineering: A Layered Technology.
2. According to "software engineering A Layered Technology" compare and contrast Method and Process.
3. Explain Information Engineering in Waterfall Model.
4. Write short note on Waterfall Model.
5. Write short note on Iterative Model.
6. Compare and Contrast V-Model Vs Waterfall Model.
7. Explain Spiral Model.
8. Explain Big Bang Model.
9. Explain Prototyping Model.
10. Explain Object Oriented Paradigm
11. Write short note on V Model.
12. Which model gives facitlity to work with big project size and small team? How?
13. Write another name of waterfall model.
14. Which model contains Risk Analysis as an activity?
15. Which model is more realistic due to planning and Risk Analysis? Why ?
16. Which model reuse already created functionality?

17. Which model prepares test case documentation in analysis and design phase?
18. Why V model is not suitable for big projects?
19. Write limitations of waterfall model.
20. Write the name of top layer of Software Engineering layered approach.

Unit -4

1. Draw symbols of Data Flow Diagram and write its use.
2. Write rules to draw DFD.
3. Write short note on Ms. Visio.
4. Write short note on User Interface Flow Diagram for your project.
5. Explain Concept of Project Estimation.
6. What is E ? what is the unit of E ?
7. Write short note on Function Point and FP based metrics.
8. Write short note on LOC based Metrics.
9. Why Project Economics should be considered in software development?
10. What is the use of PERT chart ? What is CPM ?
11. Write short note on Network Diagram.
12. Write short note on MS Project.
13. Write short note on ISO for Quality Assurance.
14. Write short note on Six Sigma for Quality Assurance.
15. What is Timeline chart ? How to construct it?
16. What is another name of Data Flow Diagram?
17. What is the difference in error and defect?
18. Write activities of Project Management.

Unit – 5

1.   Write three levels of testing.
2. Write techniques of unit testing.
3. Write techniques of Integration testing.
4. Write techniques of System testing.
5. Explain Levels of Testing.
6. Write Difference between White Box and Black Box testing.
7. Write Difference between Alpha and Beta Testing.
8. What is Software failure?
9. What is test case?
10. What is test script?
11. What is test suit?
12. What is software fault how it differ from error?
13. Explain Testing artifacts.
14. Write Difference between static and dynamic testing.
15. Write short note on testing levels and techniques.
16. What is Automated Testing? Explain its benefits.
17. Giving an example of software testing tools explain automated testing.
18. 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)
2. Draw use case diagram for "Vishal Travel Agency". (use your assumptions or experience)
3. Draw use case diagram for "Hospital Management System". (use your

	assumptions or experience)
4.	Draw Structured Chart for "Vriani Science College". (use your assumptions or experience)
5.	Draw Structured Chart for "Vishal Travel Agency". (use your assumptions or experience)
6.	Draw Structured Chart for "Vijay Khaman House". (use your assumptions or experience)
7.	Draw Data Flow Diagram (Bubble Chart) for "Vishal Travel Agency". (use your assumptions or experience)
8.	Draw Data Flow Diagram (Bubble Chart) for "Hospital management System". (use your assumptions or experience)
9.	Draw Data Flow Diagram (Bubble Chart) for "Vijay Khaman House". (use your assumptions or experience)
10.	Draw Class Diagram for "Hospital Management System."
11.	Draw Class Diagram for "Vijay Khaman House."
12.	Give the chart name which is similar to site map.
13.	Draw Starting and Ending symbol of Activity Diagram.