SHAKUNTALA KRISHNA INSTITUTE OF TECHNOLOGY KD-64 BAHABALPUR HAWASPUR KANPUR DEHAT 209310

SUBJECT:- SOFTWARE ENGINEERING CLASS:- BCA 4TH SEM PREPARED BY:- SHIVANSH SIR

- 1. What is Software Engineering? Explain its various paradigms in detail.
- 2. Explain the different phases of the Software Development Life Cycle (SDLC) with examples.
- 3. Compare the Waterfall Model and Spiral Model in software development. Highlight their advantages and disadvantages.
- 4. What is Agile Software Development? How is it different from the Prototyping Model?
- 5. What are the key tasks involved in the Software Requirements Engineering process? Explain each in detail.
- 6. Differentiate between Functional and Non-functional Requirements with suitable examples.
- 7. What is the Software Design Process? Explain the major steps involved in it.
- 8. Discuss the various types of Software Testing, such as Black Box, White Box, Unit, Integration, and System Testing.
- 9. What is Software Maintenance? Explain its different types with suitable examples.
- 10. What is Risk Management in Software Project Management? Discuss different types of risks and how to handle them.
- 11. What is Software Quality Assurance (SQA)? Discuss its importance and the techniques involved.
- 12. Explain the process of Software Configuration Management. What are its key activities?
- 13. What is Software Prototyping? Discuss different types of prototyping used in software development.
- 14. What is Software Project Planning? Explain Project Scheduling and discuss the reasons for software delivery delays.
- 15. What are Software Metrics and Software Measurements? Discuss their significance in software development.
- 16. What is Software Reuse and Software Reengineering? Discuss their advantages and challenges.
- 17. Explain Risk Identification and Risk Projection in Software Engineering with examples.
- 18. What is Software Reliability? Discuss the factors that affect software reliability.
- 19. What are Software Design Principles and Design Concepts? Explain with examples.
- 20. Explain the Software Testing Process and different Testing Criteria used in software testing.