Unit 2: Project Life Cycle and Effort Estimation

1. What are the key phases in a typical software project life cycle?
2. How does effort estimation influence project schedules?
3. Compare and contrast the Waterfall model and Agile methodologies.
4. Which software process model is best suited for projects with evolving requirements?
5. What are the main characteristics of Rapid Application Development (RAD)?
6. How do Agile methods support iterative and incremental development?
7. Describe the primary focus of the Dynamic System Development Method (DSDM).
8. What is the role of Extreme Programming (XP) in improving software quality?
9. What challenges arise when managing interactive processes in software development?
10. How do software process models affect the planning phase of a project?
11. What factors should be considered when choosing a software process model?
12. Explain the concept of timeboxing in Rapid Application Development.
13. What are the benefits of using Agile methods in software development?
14. How does the Spiral model address risk management in software projects?
15. What is the importance of effort estimation in resource planning?
16. How do process models impact the testing phase of software projects?
17. What are the advantages of iterative processes in managing complex software projects?
18. How does the V-Model ensure alignment between development and testing?
19. What are the core principles of Lean software development?
20. How do Agile methodologies ensure continuous delivery and integration?