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Master of Science in Computer Science Cohort – 5 Foundation Programme

Sample Exam Questions

Software Engineering

- 1. Describe the phases in the Software Lifecycle?
- 2. Describe the waterfall model and the related advantages and disadvantages.
- 3. Describe the issue-based model.
- 4. Describe the Rational Unified Process. How are activities and iterations organized in this model?
- 5. Describe with examples the two types of hierarchies for organizing classes.
- 6. A business scenario is given and you need to produce the use case diagram and a simplified class diagram.
- 7. Explain the differences between failure, error and fault.
- 8. Discuss fault avoidance, fault detection and fault tolerance.
- 9. Discuss model-based testing.
- 10. Briefly describe the types of testing.
- 11. Discuss static and dynamic analysis.
- 12. Discuss black-box testing. Give an example.
- 13. Discuss white-box testing. Give an example.
- 14. Discuss the types of clients that could be encountered.
- 15. Discuss technological climate.
- 16. Discuss XP day-to-day practice.
- 17. Discuss planning and modeling in XP.
- 18. Discuss SCRUM as a methodology.
- 19. Sketch and describe an overview of SCRUM sprints and deliverables.
- 20. Discuss SCRUM activities.