

(3 Hours)

[Total Marks 80]

Note: 1. Question No. 1 is Compulsory
2. Attempt any 3 questions from the remaining questions.

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| Q.1 | | 20 |
| a) | Compare Waterfall model & Spiral Model. | |
| b) | What are the Core principles of Software Engineering? Explain. | |
| c) | With suitable Diagram , Explain Software Process Framework. | |
| d) | Why System testing is needed? | |
| Q.2 | | |
| a) | List three common types of risks that a typical software project might suffer from. Give RMMM plan for the same. | 10 |
| b) | What is the importance of Requirement Analysis? Explain different Requirement Engineering tasks. | 10 |
| Q.3 | | |
| a) | Describe how version control & Change control is carried out during Software Configuration Management. | 10 |
| b) | Explain Design Concepts. What is coupling and cohesion? What is expected more? Why? | 10 |
| Q.4 | | |
| a) | Explain Agile methodology with Extreme Programming Agile Development Process. | 10 |
| b) | What are the different categories of testing under strategy for testing conventional software. Explain all in detail. | 10 |
| Q.5. | | 20 |
| a) | Draw DFD upto Level 2 for Restaurant Mangement system which has Food Ordering , Food Delivering, invoice creation and payment subsystem. | |
| b) | Whenever You work for a big client and they enforces their very formal approach on vendors and You work on fixed-scope, fixed-price contracts and client doesn't expect (for any reasons) rapid change in the scope, which process model you will select for development of product in such situation and why? Explain that Process Model in detail. | |
| Q.6. | | |
| a) | Write short note on Process Metrics & Project Metrics. | 10 |
| b) | What is Quality Assurance? Discuss different attributes of Software Quality. | 10 |
