UNIT-1

SHORT ANSWER QUESTIONS

1. Define Software Engineering
2. What are framework activities? Explain briefly
3. Define COCOMO model
4. Define CMMI model and list out levels.
5. Define software. List out types of software
6. Define Legacy software.
7. Define software. What are the characteristics of software?
8. What are the software process layers? Explain briefly
9. Define process pattern?
10. Define TSP and PSP?

LONG ANSWER QUESTIONS

1. Explain about Evolutionary process models with neat sketch
2. Explain waterfall model and Incremental model with its merits and demerits
3. Explain software myths in detail
4. Explain personal software process and team software process in detail.
5. Explain COCOMO model in detail
6. Illustrate CMMI model in detail
7. Demonstrate process patterns in detail
8. Explain software process assessment in detail

Explain RAD model and spiral model with its merits and demerits.

UNIT-2

SHORT ANSWER QUESTIONS

1. Define data dictionary
2. Define Requirement in software engineering.
3. What is feasibility study?
4. Define requirements validation
5. Define structured methods
6. What are user requirements? Explain briefly
7. What are system requirements?
8. What is context model? Explain briefly
9. What are functional requirements? Write short notes on it?
10. Define SRS?

LONG ANSWER QUESTIONS

1. Discuss all types of requirements in detail.
2. Explain in detail about Behavioral models with neat sketch.
3. Explain context models with neat sketch
4. Demonstrate data dictionary
5. Explain requirements management in detail
6. Distinguish between user and system requirements.
7. Distinguish between functional and nonfunctional requirements
8. Explain Feasibility studies in detail
9. Explain Requirements Engineering process in detail
10. Discuss user requirements and system requirements in detail
11. Illustrate software requirements document in detail
12. Explain structured methods in detail

UNIT-3

SHORT ANSWER QUESTIONS

1. What are the Quality attributes in Design process
2. Define architecture
3. What is component? Explain briefly
4. List out the golden rules for interface design
5. What are design concepts? Define them
6. Define user interface.
7. Define cohesion and what the types of cohesion are.
8. What are architectural patterns? Explain briefly
9. Define coupling and what are the types of coupling?
10. Differentiate between design and architecture?

LONG ANSWER QUESTIONS

1. Explain design concepts in detail
2. Distinguish between cohesion and coupling
3. Define Architecture. Why architecture is so important
4. Discuss about mapping data flow into software architecture
5. Discuss about Golden rules in user interface design
6. What are architectural patterns? Explain briefly
7. . Explain about pattern based software design
8. Explain Architectural styles in detail
9. Discuss about cohesion and coupling and their types in detail
10. Explain in detail about interface design steps

UNIT-4

SHORT ANSWER QUESTIONS

1. What is Black box Testing? Write short notes.
2. How software quality is measured. Explain briefly
3. Define Performance Testing
4. Define McCall's Quality factors.
5. Define software Quality. List out the important principles of software quality
6. Define verification and validation.
7. What is meant by software measurement?
8. Define Drivers and stubs
9. What is Black box testing? Write short notes on it
10. What is meant by Alpha and beta testing?

LONG ANSWER QUESTIONS

1. Explain briefly about metrics for maintenance
2. Explain Top-down integration in detail
3. Explain Software Quality in detail
4. Illustrate Validation Testing in detail
5. Discuss about metrics for Testing
6. Explain in detail about Software Measurement
7. Discuss about Unit Testing in detail
8. Explain about metrics for Analysis model briefly
9. Distinguish between Black Box testing and White Box Testing
10. Explain Art of Debugging in detail
11. Discuss about the metrics for design model and source code
12. Explain in detail about integration testing with neat sketch

UNIT-5

SHORT ANSWER QUESTIONS

1. What is Risk Management?
2. List out Review Guidelines.
3. Define Software Reliability
4. Define software risk. List types of risks
5. What is Software Reviews? Write short notes   on it.
6. Define Software Quality Assurance
7. Define RMMM? Write short notes
8. What is Risk Identification? Write short notes on it.
9. Define formal technical reviews?
10. Define statistical quality assurance?

LONG ANSWER QUESTIONS

1. Explain RMMM and RMMM plan in detail.
2. Explain in detail about Formal Technical Reviews
3. Discuss ISO 9000 Quality Standards
4. Explain Software Reviews in detail
5. Discuss about Risk Projection and Risk Refinement
6. Explain software Quality Assurance
7. Distinguish between Reactive Vs. Proactive risk strategies
8. Discuss about Risk Avoidance briefly
9. Explain in detail about Risk Identification
10. Illustrate Review Guidelines
11. Explain how to assess risk impact
12. Discuss about software risks in detail
13. Explain Software Reliability in detail