Software Engineering

**Question Bank – Software Engineering**

**Unit – 1**

**1. What are characteristics of software ?**

**2. State the core principles of software engineering practice ? 3. State the SDLC phases in brief ?**

**4. Differentiate functional and non-functional requirements 5. Define the following term**

**6. Software process**

**7. Software project**

**8. Components of software processes**

**9. Explain Time-boxing model in brief.**

**10. Explain Water fall model.**

**11. Write short notes on FDD and DSDM.**

**Unit – 2**

**1. Differentiate between Functional properties and non – functional properties. 2. What are properties of emergent system?**

**3. State the types of critical system?**

**4. Describe system dependability.**

**5. What is Requirements engineering? Explain steps to carried out Eliciting requirements.**

**6. Explain requirement management.**

**7. Explain context model with example.**

**8. Explain types of Behavioral model.**

**Unit 3**

**1. Explain software design and its phases?**

**2. Explain the organizational models in detail.**

**3. What is the need of User-interface design?**

**4. Explain the UI design process.**

**5. Explain project planning.**

**6. Write short notes on Risk monitoring.**

**7. Differentiate between Quality Assurance and Quality control. 8. Describe process and product quality in short.**

**Unit 4**

**1. Differentiate between Verification and Validation.**

**2. Explain Inspection process in brief.**

**3. What is the software testing?**

**4. Differentiate between Black box and White box.**

**5. Explain the types of System Testing?**

**6. Explain test automation.**

**7. Explain software measurement.**

**8. Explain reuse model.**

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**Unit - 5**

**1. What is meant by process improvement?**

**2. Define process.**

**3. Explain process classification.**

**4. Write note on reuse landscape.**

**5. Write note on application framework.**

**6. Explain the Architecture of software product line. 7. Explain the term Client server computing.**

**8. What is data visualization.**