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Roll No. 25420 MCA 020.....

**M.C.A. Semester I Examination 2025-26**

**Computer Science**

**CS-205 : Software Engineering**

**Time : Three hours**

**Max. Marks : 70**

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**(Write your Roll No. at the top immediately on the receipt of this question paper)**

**Note: Answer any 5 questions. All questions carry equal marks.**

1. a. Discuss the different challenges faced by Software Engineering domain related to industrial strength software. [7]  
b. What do you understand by software quality? Discuss the six quality attributes in detail. [7]
2. a. Discuss the approach of Software Engineering. [7]  
b. Discuss the desirable properties of a software process model. [7]
3. a. Discuss the time-boxing model of software development. Also discuss the types of projects it is best suited for. [7]  
b. Discuss the spiral software development model. Also discuss the type of projects it is best suited for. [7]
4. a. Discuss in detail about how Software Change Management Process is done. [7]  
b. Discuss about the Capability Maturity Model (CMM) framework for software process improvement. [7]
5. a. Discuss in detail the problem analysis phase of requirement analysis. [7]  
b. What do you understand by software architecture? Discuss the key uses of architectural descriptions. [7]
6. a. Discuss the different levels of design in detail. Which of these levels is the architectural design. [7]  
b. Discuss the main concepts of Object-Oriented design in detail. [7]
7. a. Differentiate between black-box and white-box testing with the help of examples. What do you understand by incremental testing? [7]  
b. Discuss the different levels of testing in detail. [7]