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M.Tech. (IT) (2015 & Onwards)/(CSE Engg.)/(E-Security)   (Sem.–1)
ADVANCE SOFTWARE ENGINEERING
Subject Code : CS-501
M.Code : 35402

Time : 3 Hrs.   Max. Marks : 100

INSTRUCTIONS TO CANDIDATES :
1. **Attempt any FIVE questions out of EIGHT questions.**
2. **Each question carries TWENTY marks.**

1. What is the need of requirement analysis and specification? Explain the various components of SRS considering an online tutoring system.

2. a. What is cohesion and coupling? Explain the difference considering a real-life example.

   b. What are the potential problems that can arise in software maintenance due to different types of inheritance?

3. Assume that you are working on a university software to print the result sheet of a semester. Draw the sequence diagram for it. You can make necessary assumptions.

4. What is the need of coding standard? Assume that you are writing a C program to find factorial of a number, what coding standards you will follow while writing the code. Explain.

5. Explain pair-wise testing method to perform black box testing.

6. Explain data flow-based white box testing method.

7. What is ISO 9001 standard for quality management?

8. What is client-server method of software development? Explain with the help of an hospital system.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.