Roll No. ☐☐☐☐☐☐☐☐☐☐☐☐☐   Total No. of Pages : 01

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M.Tech. (CSE Engg.) (2018 Batch) (Sem.–2)
SECURE SOFTWARE DESIGN & ENTERPRISE COMPUTING
Subject Code : MTCS-207-18
M.Code : 76058

Time : 3 Hrs.   Max. Marks : 60

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

1. a) What are software vulnerabilities? How they are identified?

    b) Give the Overview on Security concepts like Confidentiality, Integrity and Availability.

2. Write the need for Security Testing. Discuss the steps of performing security testing on software design.

3. How would you design distributed N- tier software application? What are business and data tiers of an enterprise database system?

4. Write the steps to implement a directory based server infrastructure in a heterogeneous system environment.

5. a) What is DNS in networking and how it works?

    b) How would you manage and secure a cluster in network services?

6. Explain the steps to manage and troubleshoot a network running multiple services.

7. What are web applications attacks? How to defend web and mobile applications against attackers?

8. What is SQL Injection attack? How to prevent it? Illustrate with example.

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.