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Total No. of Pages : 01

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**M.Tech.(IT)(2015 & Onwards)/(CSE Engg.) (2015 to 2017) (Sem.-1)****INFORMATION SECURITY****Subject Code : MTCS-103****M.Code : 72631****Time : 3 Hrs.****Max. Marks : 100****INSTRUCTION TO CANDIDATES :**

1. Attempt any FIVE questions out of EIGHT questions.
2. Each question carries TWENTY marks.

- Q1 a) Explain the framework of computer security architecture.  
b) Discuss the role of Firewalls in Intrusion detection systems?
- Q2 a) What is user authentication? What are advantages of remote based authentication?  
b) What is Access control and Access Rights?
- Q3 Define :  
a) Kerberos  
b) PKI
- Q4 a) Write a short note on cryptography tools.  
b) Write the functioning of DES Encryption Algorithm.
- Q5 Write a short note on following :  
a) Secure Sockets Layer  
b) Hash Function
- Q6 What are various issues related to statistics database security?
- Q7 a) Discuss the Malware and its types.  
b) Explain the phishing attacks. How to overcome these types of attacks?
- Q8 a) Define Payload. What are Payload backdoor and rootkits?  
b) Give the overview of cloud security issues.

**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.**