

**First Semester M.Tech. Degree Examination, Dec. 2013/Jan. 2014**  
**Cyber Crime and Cyber Forensics**

Time: 3 hrs.

Max. Marks:100

**Note: Answer any FIVE full questions.**

- 1 Explain what is cyber crime? Briefly explain 10 different cyber crimes? What is social engineering cyber crime? (20 Marks)
- 2 a. What is a computer virus? Name and briefly explain atleast 5 sources of virus attack. (10 Marks)  
b. Explain how unauthorized access can be gained to computers. Mention how unauthorized access can be recognized in a computer. (10 Marks)
- 3 a. What are mail bombs? Explain how mail bombs can be identified. (10 Marks)  
b. How do hackers usually study their target environments? Name atleast 5 newest hacking techniques on the rise. (10 Marks)
- 4 a. Define Cyber Forensics. Give a list of the forensic hardware tools that are required to carry out an investigation. Briefly explain their purpose. (10 Marks)  
b. Briefly explain all the steps involved in forensic processes. What are the basic forensic softwares used in these steps? (10 Marks)
- 5 a. What is biometric security? Explain each of the biometric security types, in detail. Explain how does forensic ballistics helps in analyzing ballistics related evidence. (10 Marks)  
b. What is audio forensics and video forensics? Explain some of the features of both audio and video forensics softwares respectively. (10 Marks)
- 6 a. What is network forensics? What is its main aim? Name the steps involved in performing live acquisitions. What are packet sniffers? (10 Marks)  
b. What is e-discovery? With a neat diagram of the electronic discovery reference model (EDRM), explain the process. (10 Marks)
- 7 a. Explain the process of email tracking. How can deleted emails from user account be retrieved? (10 Marks)  
b. What is encryption and decryption? With a diagram explain the public – private key encryption and decryption. (10 Marks)
- 8 a. Explain in detail, the digital evidence handling procedures. Name a few challenges faced by law enforcement officials in collecting digital evidences. (10 Marks)  
b. Explain how to recover deleted evidence from a computer. What are the challenges faced to recover deleted evidence from cloud storage? (10 Marks)