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P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belagavi)

Seventh Semester, B.E. - Computer Science and Engineering

Semester End Examination; Jan. / Feb. - 2021

Cyber Security

Time: 3 hrs

Max. Marks: 100

Note: Answer FIVE full questions, selecting ONE full question from each unit.

UNIT - I

- 1 a. Define cyber crime. Explain the types of cyber criminals. 6
- b. Write a short note on cyber crime and information security. 6
- c. What are the risks associated with cloud computing environment? How to remediate these risks? 8
- 2 a. Describe how botnets can be used as a fuel to cyber crime? 6
- b. What are the different attacks launched with attack vector? Explain. 8
- c. Discuss about the global perspective on cyber crimes. 6

UNIT - II

- 3 a. Discuss about the types and techniques of credit card frauds. 6
- b. Explain the kinds of attacks that are possible on mobile / cell phones with example. 8
- c. What are the operating guidelines for implementing mobile security policies? 6
- 4 a. Write a note on Trojan horses and backdoors attacks. What are the steps to be followed to protect the system from them? 8
- b. What is virus? List and explain different types of virus. 6
- c. Explain different ways of password cracking. 6

UNIT - III

- 5 a. Describe the various techniques used by Phishers to launch phishing attack. 7
- b. Define Identity theft and list out all types and also explain any two types of Identity theft. 7
- c. What are types of phishing scams? Explain. 6
- 6 a. Discuss the positive and negative aspects of ITA 2000. 8
- b. Explain your views on punishment for cyber criminals. Is it possible to punish them? 6
- c. Write a note on digital signature in relevance to be Indian IT act. 6

UNIT - IV

- 7 a. Explain the steps taken by attackers who hack networks using OSI 7 layer model to computer forensics. 7
- b. Explain the process involved in digital forensics life cycle. 7
- c. What are the typical elements needs to be addressed in a forensics investigation engagement contract? Explain. 6

- 8 a. What is a social networking site? What are the security issues that can emanate from social networking sites? 7
- b. What are root kits? Why are they dangerous? 5
- c. Explain the complexity and quantity problems faced in digital forensics investigation. 8

UNIT - V

- 9 a. List and explain the different toolkit for handheld devices for forensics. 8
 - b. Explain the key organizational guidelines on cell phone forensics. 6
 - c. Explain the generally accepted evidence principles and the difference with handheld devices. 6
- 10 a. Discuss about the cost of cyber crimes in an organization. 6
 - b. Describe the issues that are being faced by the IT management due to web threat. 8
 - c. Discuss about the organization guidelines for internet usage safe, computing guidelines and compute usage policy. 6

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