

**Third Semester B. E. (Computer Science and Engineering)
Examination**

CYBER LAWS AND ETHICS IN IT

Time : 3 Hours]

[Max. Marks : 60

Instructions to Candidates :—

- (1) All questions carry marks as indicated against them.
 - (2) Number your answers properly
 - (3) Assume suitable data and illustrate answers with neat sketches wherever necessary.
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1.
 - (a) Identify need for cyber laws in the Indian context. List the advantages of cyber law under IT Act, 2000. Relate the association between cyber space and cyber-crimes. 6(CO1)
 - (b) Show how organization uses reverse engineering to convert to a new database management system. How might it use reverse engineering to uncover the trade secrets behind a competitor's software ? 4(CO1)
 2.
 - (a) Classify the different categories of cyber-crime with examples of each. Identify the type of cyber-crime for each of the following situations :—
 - (i) Hacking into a Web server and defacing legitimate web pages.
 - (ii) Introducing viruses, worms and other malicious code into a network or computer.
 - (iii) Unauthorized copying of copyrighted software, music, movies, art, books.
 - (iv) Internet gambling and trafficking. 6(CO2)
 - (b) Point out the difference between :—
 - (i) Hacktivism and Cyberterrorism.
 - (ii) Cyber Crime and Cyber Torts. 4(CO2)

3. (a) Discuss in detail the classification of perpetrators of computer crime. Also indicate the typical motives of perpetrators. 6(CO4)
- (b) Illustrate the approach for ethical decision making process and also point out importance of ethics in each step of decision making. 4(CO4)

OR

- (c) Analyze Resume exaggeration with the following situation. Your old roommate from college was recently let go from his firm during a wave of employee terminations to reduce costs. You two have kept in touch over the six years since school and he has asked you to help him get a position in the IT organization where you work. You offered to review his resume, make sure that it gets to the "right person," and even put in a good word for him. However, as you read the resume, it is obvious that your friend has greatly exaggerated his accomplishments at his former place of work and even added some IT-related certifications you are sure he never earned. 4(CO4)
4. (a) Define plagiarism. Outline a multistep approach that a university might take to successfully combat plagiarism among its students. 5(CO3)
- (b) Explain the concept that an idea cannot be copyrighted, but the expression of an idea can be, and why this distinction is a key to understanding copyright protection ? 5(CO3)

OR

- (c) What does the term intellectual property encompass, and why are organizations so concerned about protecting intellectual property ? 5(CO3)
5. (a) Identify various strategies for consumer profiling, and what are the associated ethical issues ? 5(CO4)

OR

- (b) Consider the following scenario :

You have been asked to review how well your company is prepared for a major data breach of your firm's customer database containing some

15 million records with names, addresses, passwords, credit card numbers, and payment history. The goal is to minimize the potential impact of a hacker getting access to this data and to avoid expensive class action lawsuits from affected customers.

Justify how would you proceed with this audit.

What sort of measures would you look for or recommend ? 5(CO4)

- (c) Two frequently heard phrases associates with the freedom of speech are : "I disapprove of what you say, but I will defend to the death your right to say it" and "It is easy to believe in freedom of speech for those with whom we agree."

Illustrate the above two phrases that describes freedom of speech.

5(CO4)

6. (a) Which of the following is not an advantage for organizations that employ contingent workers ? Explain with justification.
- (a) The company can release contingent workers when they are no longer needed.
 - (b) Training costs are kept to a minimum.
 - (c) Contingent workers provide a way to meet fluctuating staffing needs.
 - (d) The contingent worker's experience may be useful to the next firm that hires him or her.

5(CO4)

OR

- (b) Briefly describe a situation that could occur at any employer or any school that would rise to the level of a potential whistle blower situation.

What steps should be taken, would you take and to whom would you speak to call this matter to the attention of appropriate members of management?

5(CO4)

- (c) What key ethical issues are associated with the use of contingent workers, including H-1B visa holders and offshore outsourcing companies ? 5(CO4)