

QUESTION PAPER

Answer any FOUR of the six questions.

Each question is worth **25 marks** – **Total 100 marks.**

Q1

‘Social Networking’ is considered as an unexpected development that is fast growing with the ubiquitous nature of Internet.

- a) What is Social Networking? **[5 marks]**
- b) What benefits can society derive with its widespread use? **[9 marks]**
- c) What are the social and/or ethical issues of Social Networking Services in general and in terms of User Privacy and Data Transmission in particular? **[11 marks]**

Q2

- a) Explain the purpose of professional bodies. **[4 marks]**
- b) Describe FOUR guidelines and professional responsibilities with examples for each. **[16 marks]**
- c) Explain what is meant by the term Professional Interest and Integrity in the context of the IT industry **[5 marks]**

Q3

- a) Difference between the two version of Utilitarianism “The **Act** and the **Rule** version” with examples. **[5 marks]**
- b) Two legislators who ran for re-election lost. They sued an organization that sponsored ads criticizing their voting records. The former legislators argued that the organization interfered with their right to hold office.

In the following case, tell whether the people are interpreting the right they claim as a negative right (liberty) or as a positive right (claim right). Explain. Which kind of right should it be, and why? **[8 marks]**

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- c) The lead developer of your software engineering team instructs you to inject malicious code into software that will cause it to fail repeatedly. He wants the end users to request support which they will have to pay for. He threatens to fire you if you do not agree.

Discuss the legal, social, professional and ethical implications of both following and not following his instructions and arrive at a conclusion.
[12 marks]

Q4

- a) List out SIX principles of data privacy. **[6 marks]**
- b) What are the FOUR categories of privacy threats? **[4 marks]**
- c) A company in the Netherlands that makes navigation devices collects location data from the devices to provide real-time services to its customers. It also provides anonymous statistical data to government agencies to improve roads and traffic flow. Unknown to the company and its customers, the police used the data to choose sites for traffic cameras to catch speeders. Some say this was a privacy violation. Others have disagreed.

Write your answer in *four* paragraphs: an introduction, for, and against and a conclusion.
[15 marks]

Q5

- a) What is Biometrics? Describe two problems with using biometrics for identification. **[4 marks]**
- b) Describe three responses/precautions to identity theft. **[6 marks]**
- c) Young, technically oriented hackers argued that, if the owners of a computer system want to keep outsiders out, it is their responsibility to provide better security. Ken Thompson, one of the inventors of UNIX, said, "The act of breaking into a computer system has to have the same social stigma as breaking into a neighbour's house. It should not matter that the neighbour's door is unlocked." Which position do you agree with more?

Write your answer in *four* paragraphs: an introduction, a paragraph listing two arguments for, a paragraph listing two arguments against, and a conclusion that reflects which position you agree more. **[15 marks]**

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Q6

- a) Describe how the term "Hacker" changed over time. What are white hat hacker? Describe two penalties for young hackers.. **[6 marks]**
- b) Why is "harmless hacking" not harmless? Justify by giving an example. **[4 marks]**
- c) Give arguments for and against hiring former hackers to enhance security. Write your answer in *four* paragraphs: an introduction, for and against, and a conclusion. **[15 marks]**

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