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**UNIVERSITI TUN HUSSEIN ONN MALAYSIA**

**FINAL EXAMINATION  
SEMESTER II  
SESSION 2015/2016**

**COURSE NAME : COMPUTER, ETHICS AND SOCIAL**

**COURSE CODE : BIT 21002**

**PROGRAMME CODE : BIT**

**EXAMINATION DATE : JUNE / JULY 2016**

**DURATION : 2 HOURS**

**INSTRUCTION : ANSWER ALL QUESTIONS**

**THIS QUESTION PAPER CONSISTS OF SEVEN (7) PAGES**

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**SECTION A**

**Instruction: Choose the BEST answer for each of the following questions.**

**Q1** Manipulating someone within an organization to gain access to confidential information is called

(2 marks)

- A. diving.
- B. hacking.
- C. phreaking.
- D. social engineering.

**Q2** Hacktivism is:

(2 marks)

- A. A political activist group promoting tougher anti-hacking laws
- B. The counter-hacking techniques used by the FBI and other law enforcement agencies
- C. The use of hacking to promote a political cause
- D. A newsletter for hackers

**Q3** Web sites that look attractive to hackers, but are closely monitored so that everything the hacker does at the site is recorded and studied are known as:

(2 marks)

- A. Honey pots
- B. Digital surveillance
- C. Computer Entrapment
- D. Hacker crackdown

**Q4** A self-contained program that spreads through a computer network by exploiting security holes is called a

(2 marks)

- A. rogue.
- B. Trojan horse.
- C. virus.
- D. worm.

**Q5** An intentional action designed to prevent legitimate users from making use of a computer service is called (2 marks)

- A. a bombing run.
- B. phishing
- C. a denial-of-service attack.
- D. phreaking.

**Q6** The process of determining that a user has permission to perform a particular action on a computer is called (2 marks)

- A. accountability.
- B. authentication.
- C. authorization.
- D. debugging.

**Q7** Which of the following is not an exclusive right (subject to some exceptions) granted by copyright law? (2 marks)

- A. Copy the work
- B. Distribute the work
- C. Profit from the work
- D. Create "derivative works"

**Q8** In the term "Free Software," "free" implies all of the following **EXCEPT** (2 marks)

- A. Free of cost
- B. Free to copy
- C. Freedom
- D. Free to modify

**Q9** The proper noun “Maggi” is protected

(2 marks)

- A. as a trade secret.
- B. with a trademark.
- C. with a patent.
- D. with a copyright.

**Q10** The Software Engineering Code of Ethics and Professional Practice was developed by

(2 marks)

- A. Computer Professionals for Social Responsibility.
- B. the Association for Computing Machinery and the Institute for Electrical and Electronics Engineers.
- C. a consortium of computer science departments in the United States, Canada, and Mexico.
- D. Immanuel Kant

**SECTION B**

**Instruction: Answer ALL questions.**

**Q11** Modern information technology allows a great deal of information to be collected, stored, searched, and rapidly retrieved.

(a) Give **TWO (2)** examples of how this capability benefits society. (4 marks)

(b) By giving **THREE (3)** examples, explain how information technology made it easier for consumers to violate copyright law. (6 marks)

(c) Questions **Q11(c)(i)-Q11(c)(ii)** are based on **Figure Q11(c)**.

Professor Lee asks his students to look for a few journal articles for class. However, some of his students complain that they cannot get access to the articles so Professor Lee scans them and posts them on his Web site. Then he gives the students in the class the password they need to access the articles.

**Figure Q11(c)**

(i) Give **ONE (1)** example to describe the concept of fair use. (4 marks)

(ii) Discuss **FOUR (4)** factors stated in the Copyright Act to justify whether the professor's action constitute fair use of copyrighted material. (8 marks)

**Q12** The Software Engineering Code of Ethics and Professional Practice 1999 is a practical framework for moral decision making related to problems that software engineers may encounter. One of the principles in the Software Engineering Code of Ethics state the importance to ensure their products and related modifications meet the highest professional standards possible.

(a) Describe how computer-related careers different from a fully developed profession. (5 marks)

- (b) Describe **FIVE (5)** responsibilities of a software engineer to achieve the standards.

(10 marks)

**Q13** Questions **Q13(a)** –**Q13(b)** are based on **Figure Q13**.

Azwan maintains a popular blog focusing on campus life. One day, he attends a private birthday party in his friend's apartment. At the party, Azwan uses his mobile phone to get a picture of his friend, Saiful wearing a funny but inappropriate costume. She posts the photo on his blog without asking for Saiful's permission. In the blog he identifies Saiful and explains the context in which the photo was taken. The story is read by many people both on and off campus. The next day, Saiful confronts Azwan and demands that he remove the photo from his Web site. Azwan complies with Jerry's request by removing the photo, and the two of them remain friends. As a result of the incident, Jerry becomes more popular on campus, and the number of people who read Azwan's blog increases.

**Figure Q13**

Was it wrong for Azwan to post the picture of Saiful on his blog without first getting his permission? Discuss your answer from the following perspectives:

- (a) Rule Utilitarian Evaluation (6 marks)
- (b) Kantian Analysis (6 marks)

**Q14** (a) Define the term digital rights management. (2 marks)

- (b) Suggest **THREE (3)** different technologies that have been used or proposed for digital rights management. (6 marks)

- (c) Question **Q14 (c)** is based on **Figure Q14(c)**.

Suppose your band has recorded a song and posted it as an MP3 file on your Web site.

**Figure Q14(c)**

Suggest **TWO (2)** ways you can allow people to download your music for noncommercial purposes while retaining your copyright on the song.

(6 marks)

- Q15** Questions **Q15 (a) – Q15(c)** are based on **Figure Q15**.

Ann is an accountant at ABC Corporation, a firm with 100 employees. All of the employees work in the same building, and Ann knows all of them on a first name basis. Ann loves to bake cookies and sell cookies during her spare time. Ann sent an email to all employees, inviting them to place orders. (There is no company rule prohibiting the use of the email system for personal emails.) Ten percent of the recipients were happy to get Ann's email, but the other recipients did not appreciate having to take the time to read and delete an unwanted message.

**Figure Q15**

- (a) Is Ann's email considered a spam? Explain your answer. (3 marks)
- (b) Did Ann do anything wrong? Discuss your answer from the following perspectives:
- (i) Social Contract Theory (6 marks)
  - (ii) Kantian Analysis (6 marks)
- (c) Suggest **ONE (1)** technique that the employees can do to stop receiving spam emails. (2 marks)

**- END OF QUESTION -**