COMSATS University Islamabad

CSC410 Professional Practices
Terminal Examinations Spring 2025
Hybrid Course

Time: 03Hours | Total Marks: 50

Student Name: _____

Registration Number: _____

Campus: _____

Moderator Name: _____

Student Signature: _____ **Invigilator Signature:** _____

Instructions to Students

- Do not open this question paper until you have been told to do so by the Invigilator.
- Do not write anything on the question paper except Name, Registration Number, Campus, Moderator's Name and Signature.
- Mobile phone, digital diaries or any other digital storage medium is not allowed in the examination hall.
- Student(s) must be accompanied with **Student ID Card(s)**for identification purposes.
- Return the question paper with the answer sheet.
- Attempt all questions on the answer sheet.

Declaration: It is here by informed to all examinee that use of unfair means as defined by rules and regulations is considered as an academic offense of highest nature there is. All examinees found guilty shall be dealt with in accordance to the statutory rules pertaining to student conduct, discipline and examination. The University's decision in all such matters shall be the final binding on all parties.

Question 1 [6marks, CLO1]

Briefly explain the concept of Internet addiction and its harmful consequences, and provide examples of cyberbullying along with common reasons why people engage in it. How do these behaviors affect individuals?

Question 2 [8marks, CLO2]

What is act utilitarianism and the principal of utility? How does act utilitarianism decide if an action is right or wrong? Explain with the help of an example.

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Question 3 [3+3+3=9marks, CLO3]

I. Mr. X and Mr. Y are software engineers working on a mobile app for their company. Mr. X has worked on the main parts of the app's code, and Mr. Y is in charge of the user interface (UI). One day, Mr. Y sees some parts of Mr. X's code that he thinks could be improved. Without talking to Mr. X, he makes changes to it. Later, when Mr. X sees the changes, he is upset because Mr. Y didn't ask him first and didn't give him credit for his work.

In the next team meeting, Mr. X shares his frustration, and Mr. Y defends his actions, saying he was just trying to make things better. This causes some tension between them, and it affects how well they work together.

a. Which principle from the Software Engineering Code of Ethics is most relevant to this scenario and why?
b. How should Mr. Y have handled the situation to maintain a positive working relationship with Mr. X?
c. What steps should Mr. X take to address his concerns and ensure that future issues are handled more effectively?

Question 4 [3+3+3=9marks, CLO4]

Attempt any three of the following.

a. Define intellectual property and give two examples of it. Identify any two principal rights of a copyright owner.
b. What is "fair use," and why is it important in education and research?
c. Describe how BitTorrent improves file-sharing efficiency compared to earlier peer-to-peer technologies like FastTrack.
d. List three benefits of open source software and name two open-source software programs that play a major role in Internet infrastructure.

Question 5[5+5+5+3 =18 marks, CLO5]

a. What is data mining, and how is it different from looking at a single database record? How does Google use data mining to personalize your search results?
b. What is collaborative filtering, and how is it used to make product or content recommendations? Give one example of how collaborative filtering might be used in a store or on a website.
c. Briefly explain how Security patches, Antimalware tools and Firewalls, the three defensive measures help protect personal computers from malware.
d. Explain how RFID technology improves product tracking and checkout processes, and why it raises privacy concerns.

Good Luck!

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