COMSATS University Islamabad

CSC210 Professional Practices

Terminal Examinations Spring 2025

Hybrid Course

Time: 03Hours **Total Marks: 50**

Student Name: _____

Registration Number: _____

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.

Question 1 [7marks, CLO1]

What is act utilitarianism, and how does it decide if an action is right or wrong? Explain with the help of an example.

Question 2 [3+3+3 = 9marks, CLO2]

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 3 [4 × 4 = 16marks, CLO3]

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.

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