



(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2021 /2022 ACADEMIC YEAR

END OF SEMESTER EXAMINATIONS YEAR FOUR SEMESTER TWO EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF SCIENCE COMPUTER SCIENCE

COURSE CODE : CSC 420

**COURSE TITLE : SOCIAL ISSUES & PROFESSIONAL
PRACTICE IN COMPUTING**

DATE: 2/09/2022

TIME: 09:00 A.M – 11:00 A.M

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTIONS ONE AND ANY OTHER TWO.

QUESTION ONE (COMPULSORY) [30 MARKS]

- a. i. As a computer science graduate, are you a professional? [1 Mark]
- ii. State reasons for your answer above [3 Marks]
- b. i. Explain the purpose of collaboration tools. [2 marks]
- ii. Give FOUR examples of collaborative tools, two for coordination and two for cooperation and show how they are used in professional communication. [4 Marks]
- c. i. What is professional communication? [2 Marks]
- ii. Why is inter cultural communication an important asset that a software developer or networking specialist needs to have in his career? [4 Marks]
- d. i. List a brief description of the major personality types [4 Marks]
- ii. As an ICT department head, which personality type would you least prefer to be in your team. Give reasons. [4 Marks]
- e. Explain the difference between the terms copyright, trademark and patent giving an example of a product that would receive protection under each of these three ways to protect intellectual property. [6 Marks]

QUESTION TWO [20 MARKS]

- a. Do computer professionals have a presumed, or prima facie, obligation of loyalty to their employers? Explain. [4 Marks]
- b. Explain the concept and limitations of fair use as it applies to the reuse of copyright materials without the need for licensing. [4 Marks]
- c. Describe three justifications for professional codes of ethics for you as a computer science graduate [6 Marks]

d. As we all know, Covid-19 disrupted our everyday life. It has turned into a global pandemic and yet there is no medicine available for its treatment. Though companies from different countries had successfully invented vaccines to fight this, there is no such guarantee that people will get a complete protection against it. Considering this situation answer the following.

i. Between copyright or patent, which one applies in the above case. Explain [4 Marks]

ii. Based on your above answer describe how it (Copyright/Patent) has promoted scientific and computing innovation? [2 Marks]

QUESTION THREE [20 MARKS]

a. In the current Covid-19 pandemic situation, the world has shifted the communication medium to online mode. There are many existing tools and also some new tools have been adopted worldwide. You must have adopted some tools or software which were not in your day-to-day life earlier. Now answer the following based on your adoption of software (new or existing).

i. List down six such tools/software along with the purposes you are using it. [3 Marks]

ii. How each of these tools has been transformed/eased your communication mediums during this pandemic? [3 Marks]

iii. List down at least one adverse effect of each of these tools in your life. [3 Marks]

b. In recent times, Instagram has changed its privacy policy, which creates a lot of buzz among the people all over the world. Instagram's new cyber surveillance policies allow Mark Zuckerberg to spy on you and your family, steal your most intimate secrets and monitor your compliance with government mandates through all your devices - including your television - and sell your data to government and industry. Now answer the following questions.

i. Describe your understanding of privacy [2 Marks]

ii. How is Instagram violating privacy from the extract above? [3 Marks]

b. Briefly explain, why government and industry need such data, what are their goals? Also, explain what techniques will apply to fulfill their goals. [3 Marks]

c. What principles need to be followed while collecting user data? Show how Instagram's new privacy policy lack of those principals. [4 Marks]

QUESTION FOUR [20 MARKS]

a. There are different leadership styles that leaders exhibit in an organization. In your opinion, pick the worst two that unsuccessful leaders have employed in their organizations. [8 Marks]

b. Suppose you are working in a security company. You work there as a computer Principal Security administrator officer and you can monitor the company network from anywhere. During this global pandemic situation, you frequently work from home. Your nephew, a university student, is visiting for a week. He asks to use your computer for his project. Sure, you say. You are being a gracious host. Now answer the followings.

i. Is there a professional problem in the scenario above? [4 Marks]

If something happens while your nephew using the computer, describe the things we should consider while making a decision of punishment. [4 Marks]

QUESTION FIVE [20 MARKS]

a. i. Based on Tuckman's theory, describe the stages of group development [10 Marks]

ii. As a computer scientist involved in a software project, why is group dynamics an important area you need to understand? [4 Marks]

iii. What makes a team effective and successful? [6 Marks]