

KATHMANDU UNIVERSITY  
End Semester Examination  
July/August, 2024

Marks Scored:

Level : B.E/B.Sc.  
Year : III

Course : COMP 343  
Semester : II

Exam Roll No. : Time: 30 mins.

F. M. : 10

Registration No.:

Date 05 AUG 2024

SECTION "A"

[20 Q. × 0.5 = 10 marks]

Choose and encircle the most appropriate option from each set of choices

1. Ethical Values are associated with?
  - a. Social System
  - b. Rule Making
  - c. Compassionate living
  - d. Devotional living
2. "Software engineers should not use their technical skills to misuse other people's computers." Here the term misuse refers to:
  - a. Unauthorized access to computer material
  - b. Unauthorized modification of computer material
  - c. Dissemination of viruses or other malware
  - d. All of the mentioned
3. Hedonism is a school of thought that argues that \_\_\_\_\_ is the only intrinsic good.
  - a. Pleasure
  - b. Virtue
  - c. Justice
  - d. Freedom
4. Utilitarian school having the slogan:
  - a. The greatest happiness of the individual
  - b. The greatest happiness of the greatest number
  - c. The happiness of all
  - d. The happiness of the greatest number
5. Duties are \_\_\_\_\_ of individuals recognized by society
  - a. Obligations
  - b. Moral claims
  - c. Moral freedom
  - d. None of Above
6. Virtue denotes a \_\_\_\_\_
  - a. Character
  - b. Morals
  - c. Good character
  - d. Goodness
7. Which of the following are the attributes of a profession?
  - i. The work requires sophisticated skills, the use of judgment, and the exercise of discretion.
  - ii. Membership in the profession does not require extensive formal education as well as practical training.
  - iii. There are set standards for admission to the profession and conduct for members.
  - iv. Significant public good results from the practice of the profession.Select the correct answer using the codes given below
  - a. i, ii, and iii only
  - b. i, ii, and iv only
  - c. i, iii, and iv only
  - d. ii, iii, and iv only
8. Which of the following are desirable characteristics of a "green computer"?
  - a. It runs on less electricity than the typical computer.
  - b. It contains a high percentage of reusable or recyclable materials.
  - c. Its manufacturer has a program to help consumers dispose of it at the end of its life.
  - d. All of the above



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Semester : II  
F. M. : 40

**05 AUG 2024**

SECTION "B"

[6Q. × 4 = 24 marks]

Attempt *ANY SIX* questions.

1. What is ethics? Why are the organizations interested in fostering corporate social responsibility and good business ethics?
2. What key characteristics distinguish a professional from other kinds of workers, and is an IT worker considered a professional? How do certification or license programs can better serve the needs of the IT community?
3. Cite an example of information technology companies pushing the boundaries of privacy issues; apologizing, and then pushing again once the scandal dies down. As long as the controversy fades, is there anything unethical about such a strategy?
4. Outline a scenario in which you might be acting ethically but might still want to remain anonymous while using the Internet. Identify two approaches someone might take to learn your identity even if you attempt to remain anonymous.
5. You are surprised to receive Facebook and LinkedIn friend requests from one of your neighbors in the apartment building that you moved into last weekend. You know nothing about the individual and are really not interested in being friends. Your first reaction is to ignore the requests, but you are concerned that you will keep running into the person around your apartment complex and that the situation could become awkward. What would you do and why?
6. Your organization is preparing to submit a bid for a multimillion-dollar contract in South America. The contract is extremely important to your firm and would represent its first contract in South America. While meeting with your South American contacts, you are introduced to a consultant who offers to help your firm prepare and submit its bid, as well as to negotiate with the prospective customer company. The consultant is quite impressive in his knowledge of local government officials and managers and executives at the customer's company. The fee requested is only 1 percent of the potential value of the contract, but it is unclear exactly what the consultant will do. Later that day, your local contacts tell you that the use of such consultants is common. They say that they are familiar with this particular consultant and that he has a good reputation for getting results. Your company has never worked with such consultants in the past, and you are uncertain on how to proceed. What would you do and why?
7. Outline a multistep ethical approach that a university might incorporate to guide and address ethical dilemmas and issues posed by AI platforms like ChatGPT and others in undergraduate engineering education.

P.T.O.

8. Can role-playing illegal and violent fantasies in a virtual world affect individuals and society in the real world? What are the social and ethical implications of such role-playing? Should limits be placed on what players can do in virtual worlds?

SECTION "C"

[2Q. × 8 = 16 marks]

*Attempt ANY TWO questions.*

9. You are the manager of a large IT project that will involve two dozen offshore outsourced workers who will do program development and testing. Identify several potential issues that could arise on this project due to the outsourcing arrangement. What specific steps would you take to improve the likelihood of success of the project?
10. You are beginning to feel very uncomfortable in your new position as a computer hardware salesperson for a firm that is the major competitor of your previous employer. Today, for the second time, someone has mentioned to you how valuable it would be to know what the marketing and new product development plans were of your ex-employer. You stated that you are unable to discuss such information under the nondisclosure contract signed with your former employer, but you know your response did not satisfy your new coworkers. You fear that the pressure to reveal information about the plans of your former company is only going to increase over the next few weeks.

What are the key issues posed by your current situation? What would you do and what are your appropriate justifications?

11. Tip-Top Technical University (TTTU), a government organization, wanted to install management information system (MIS) software at TTTU to increase its efficiency and enhance quality education. TTTU asked Er. Ram Bahadur, a full-time TTTU faculty and a part-time software developer at SoSoft Solutions Pvt. Ltd, to prepare a detailed technical specification and to publish a tender notice. TTTU's technical evaluation committee, headed by Er. Ram Bahadur, awarded the highest mark (98 out of 100) to SoSoft's technical proposal. The SoHard Solutions Pvt. Ltd. another company participating in the tender scored the highest mark in the overall evaluation (technical plus financial), but Er. Ram Bahadur recommended the TTTU management to select SoSoft for the MIS project. Before any decision was made, SoSoft increased the warranty period and expressed readiness to negotiate the price of MIS if an annual maintenance contract was also awarded to them, which was a very attractive offer for TTTU.

You are the decision-maker at TTTU. Analyze the situation carefully and prepare a list of issues of integrity and ethical practices of IT professionals in the case discussed above. What would you do along with the potential consequences of each, and appropriate justifications?