Daffodil International University

Fall 2020

Department of Computer Science and Engineering
Final Open Book Examination Answer Script

Full Marks: 40 Allowed, Time: 4hrs (from: 02:00   to: 06:00   )

Date: Tuesday 21, December 2020

Submission Date: Tuesday 21 December 2020 by 06:00pm

General Information (must be filled by the student)

COURSE CODE: CSE498   **SECTION:** O9   **PROGRAM:** DAY

STUDENT ID: 171-15-8782   **TIME STARTED:** 02:00pm   **TIME ENDED:** 04:30pm

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[Student must either TYPE or HAND WRITE the answers in this template; In case needed just write your detail on the paper using hand]

Ans to the question no : 1 (a)

Edward Joseph is the whistleblower in the above scenario.

The code of ethics doesn't work on 3'R'S of ethics. That's mean rules, responsibility and respect according to the scenario Edward was an employee and subcontractor .His disclosed numerous global surveillance programs which is about illegal activities occurring in a government . As a whistleblower person he raised concern about frauds, wrong doings and mismanagement which is based on rules, responsibility and respect. That's why he didn't get punishment by code of ethics. Actually the limitation of ethics are based on this we all know-

- Codes of ethics are broad guidelines, restricted to general phrases. The codes cannot be applied directly to all situations.
- Engineering codes often have internal conflicts, since several entries in codes overlap with each other, which may result in moral dilemmas.
- The codes cannot serve as the final moral authority for professional conduct.

Ans to the question no: 1 (b)

According to the scenario NSA is using peoples personal information to run numerous global surveillance program.

The perspective of a consequentialist they cam do that at any cost cause they have to run numerous global surveillance program which decreases ones privacy.

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The perspective of a deontologist they can't do it cause that's not they can't do it cause that's not the right way as they decrease one's privacy. They can do it in other way. The perspective of a virtue ethicist a virtue ethicist always solve a problem with mutually. By this scenario NSA can't break individual; privacy to run global surveillance if there is no only other way.

Ans to the question no : 2 (a)

Ethics means moral philosophy , the concepts of right and wrong behavior when someone loses this if makes ethical problem.

For example, copying in the exam, steal others thing information, embezzlement etc. In the above scenario if my niece steals anything from my computer it would be a ethical problem. And if he stole something from my pc it will be questionable. Because this will interrupt the ethical guidelines. We know the profession ethics distinction

- Right, wrong, and okay
- Negative and Positive Rights
- Distinguishing Wrong and Harm
- Separating goals from constraints
- Personal preference and ethics
- Law and Ethics

Because a professional workers should follow the rules of professional ethics . If he can not obey this it will be a ethical problem.The above scenario distinction is personal preferences and ethic which is categorized.

Ans to the question no : 2 (b)

If something happens while using the computer like she delete data, take data on set any virus on misuse data of the company. She will be punished as it's a crime. But I will consider on the intent, age and damage done. If she damages a lot with criminal intention and also adult . She will get massive punishment. Otherwise she will get some consideration. So there is some guidelines for ethics which should follow that:

- Understand what success means
- Include users (such as medical staff, technicians, pilots, office workers) in the design and testing stages to provide safe and useful systems
- Do a thorough, careful job when planning and scheduling a project and when writing bids or contracts
- Design for real users

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Ans to the question no : 3(a)

According to the scenario we can see that the description is about the present COVID-19 situation where there is no medicine available for its treatment but some companies invented made vaccines to fight depended on their country situation . But there is no possible that the patient will cure absolute . So in my opinion they should patent the product in foreign countries lab for researching and make vaccine depend on their situation . If they can modify the vaccine it will be the best for every country. So this is a must that every country needs the vaccine for living healthy and fit life.

Because copyrighted product cannot be modified or invented anymore . If the product can be modified this will be more affectable.

Ans to the question no : 3(b)

As I told in previous answer the patent will be more affectable because the copyright doesn't allow others to interrupt the invented one. So there is some difference between copyright and patent -

Copyright: Which Protects works that owe their origin to the expressive efforts of an individual. It is the Key which is that if the work is original then it can be copyrighted. Even if there is a closely similar work in existence. Copyright owner has rights only against those who use their work without permission . The examples of copyrighted work:

- Literary works
- Dramatic works
- Music works
- Artistic works

 Patents: Protect the discoveries of inventors. For as long as patent lasts, holder has a monopoly right. This right prevents anyone from producing implementations of their invention, even if same discovery was made independently.

Ans to the question no : 4

According to the scenario I am a consulting expert who investigate cases. And the case is about a robot which kill a worker with low software development procedure.

We can see on the scenario if the fence will open the robot system will be turned off so the worker saw a malfunction robot which is not working so his mistake was he did not open the fence. He jumped over the fence and starting repair the malfunction robot. So this is the wrong move and the company did a right thing that fenced the whole area. But there is many wrong steps by the company there should be upgraded robot for this system , develop a better recognition, moving capability and features. The robot should be more updated to recognize its robot or human.

And my question is if there are robot are working why the human workers are there?

There should not be any human workers there and it happened because of poor publishing notice or management.

Because of this low configured robot the computer system crashed or failed and killed the worker. So it failed because of

- Poor safety design
- Insufficient testing and debugging
- Software errors
- Lack of safety interlocks (hardware)
- Overconfidence
- Inadequate reporting / investigation of accidents

The robot system should be more reliable and it only done if the developer is well professional. The company reduce the worker death by using robots but with this insufficient testing the worker had killed .So the company will be blamed for this irresponsible step.