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ID # : 13123
SUBJECT : PROFESSIONAL PRACTICES
ASSIGNMENT : 1

● **Question No: 01**

Why educational institutions include ethics awareness in software engineering courses? Give answer while keeping in mind current changes in the software industry. For example, social media application, mobile games and flourishing e-commerce industry.

● **Answer NO: 01**

As in this era we observe many changes in software industry like social media applications, mobile games and flourishing e-commerce industry. That's all due to ethics. It's because of ethics that defines the socially acceptable behaviors are established by various organizations to produce a positive effect on judgement, to establish responsibility of professionals to act ethically according to the policies and procedures of their employers, professional organizations and laws of society, that's why educational institutions focus on ethics awareness in software engineering.

● **Question No:2**

You are the owner of a software engineering company. Your employees (engineers) want you to pay for them to attend training.

How would you respond in a way that is legal, moral, and ethical?

● **Answer No:2**

The following ethics of knowledge an engineer must have with professional skills:

1. Engineers shall act according to the public interest.
2. Software engineer have to ensure that their products meets the professional standards.

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ASSIGNMENT : 1

3. Engineer shall remain integral and independent in their professional judgment.
4. Software engineering managers should subscribe to and promote an ethical approach for managing of software development and maintenance.
5. Software engineer have to be fair and supportive of their colleagues.

● **Question No: 03**

Cyber Ethics is considered as more accurate label than the Computer Ethics and Internet Ethics. Explain why?

● **Answer No: 03**

Cyber ethics is more legit than computer ethics, which can suggest the study of ethical problems limited to computer computing machines. Cyber ethics is also way more thorough than internet ethics which is only limited to ethical problems affecting only networked computers and devices.

● **Question No: 04**

What might a software engineer do that is:

- ✧ **Illegal, immoral, unethical?**
- ✧ **Legal, immoral, unethical?**
- ✧ **Legal, moral, unethical?**

● **Answer No: 04**

If a company of a software engineer builds a software that is ultimately deemed federally illegal than such thing is an illegal act for software engineer or that company and they are liable to be potentially sued or legally punished.

NAME : MIAN AHSAN JAN
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ASSIGNMENT : 1

If an act is illegal than ultimately it unethical and immoral

- Software is developing in a complex legal and economic framework. If software engineer builds a program or anything that is legally correct but affects some ones jurisdiction intellectual property or privacy etc. than that cannot is considered legal but immoral and unethical.
- If a software engineer has done something that is legally and morally correct than that cannot be unethical.
- **Question No: 05**

Apply the ethical decision making code in the following cases:

a) Ali reused the licensed software code without getting any permission, payment or acknowledgement in the document.

b) Incorporated other Colleagues component in application without his knowledge

c) A Samsung programmer did not describe complete details of vulnerabilities in security applications

d) The employer told a designer to design Blue National card to white people and Brown for Black people.

- **Answer : 05**

A) Ali is not doing legal, moral or ethical by practice by not paying for the software code. ali has to atleast acknowledge the addition of the code by giving reference to that respective code

B) If the product is copyrighted then it is illegal to use but if its not copyrighted it is is still immoral and unethical to use someone else's work

C) For samsung programmer it is important to describe the full risk of using Application/or product because anyone data can be compromised and hacked.\

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D) This is racial discrimination against brown and black people because everyone should have equal rights whether its black brown or white so everyone should have the same color card

This is immoral and unethical but not illegal as there is no law against it. .