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Q1 [8 Points]:

Read the following case then use the FORM in the next page to answer.

Eng. Saleh is a software Engineer who makes a living as an IT private consultant. Small businesses hire him to examine the company's operations, evaluate their digital transformation needs, and make recommendations about the kind of IT solutions they should purchase.

Recently, Eng. Saleh was hired by a private school. The school was interested in upgrading the hardware and software it uses for students records and accounting. The School had already solicited proposals for upgrading their system. They hired Eng. Saleh to evaluate the proposals they had received. Eng. Saleh examined the proposals very carefully. He considered which system would best to meet the School's needs, which company offered the best services in terms of training of staff, system security features and future updates, which offered the best price, and so on.

He recommended that Tri-Star Systems was the best alternative for the Schools; In spite of a clear lack of essential security features of the proposed system. Eng. Saleh recommended Tri-Star system. Eng. Saleh wrote in his report, explaining his reasons for drawing this conclusion. One reason was due to the limitation of budget of the School.

$$5 + 3 + 1 + 5 + 5 = 19/25$$

The Form

5

Does Eng. Saleh Violate Software Engineering Code of Ethics? If he does what principle he violated? [ 2 points]

- Public
- Profession

1

According to this principle, How shall software Engineer Saleh act? [ 2 points]

Software engineer shall act with interest of Public and do not do something harm people

2

How the software Engineer Saleh violated this principle? [ 2 points]

- Approve software only if it is safe
- Accept full responsibility for their own work
- Promote their interest

2

From the case provided give evidence which support such violation? [ 2 points]

Zero

Q2 [5 points]: One major challenge that faces e-business is How to protect customers' sensitive information such as credit card information. Privacy

Q2-A: In your opinion, what a good solution could be? [2 points]

They should protect by secured the data and do not anyone access to this information. 1

Q2-B: Justify your answer as a computer professional? [3 Points]

- 1) minimize the collection of data
  - 2) limit the access of data
  - 3) secured the data
- 2

Q3 [2 points]: John is a software engineer who works as a social media consultant for a public relation company. Once, he has been asked by his line manager to collect data on the staff working in his department using some social media platform. He did that. It is obvious that John violated "Colleagues" code of ethics.

1 Q3-A: According to principle of Colleagues How shall John as a professional software engineer act? [1 point]

Software engineer shall be help other colleagues and be create fully work of others

Q3-B: How the software Engineer John violated this principle? [1 point]

- Violate the Privacy of the staff



Q4 [5 Points]: Richard Stallman argues that information should be totally free. He advocates free software in four freedoms. Explain?

- 1-) run program
- 2-) see and editing the source code
- 3-) improve the program
- 4-) distribute the software

5

Q5 [5 Points]: Do you agree with Richard Stallman's view regarding Sharing Software. Justify your answer?

5

there is alot of benefit to be shared for example

- 1-) equality of access
- 2-) quality of software

but there is problems like:

- 1-) No funding for programmers
- 2-) No technical support

so I believe sharing software is important even if its <sup>for</sup> paid