



Sri Lanka Institute of Information Technology

B.Sc. Honours Degree in Information Technology

Supplementary Examination
Year 2, Semester 2 (2022)

IT2090 – Professional Skills

Duration: 2 Hours

August 2022

Instructions to Candidates:

- ◆ This paper is preceded by 10-minute reading period. The supervisor will indicate when answering may commence.
- ◆ The total marks for the paper are 60.
- ◆ This paper contains 3 pages, including the cover page.
- ◆ Electronic devices capable of storing and retrieving text, including calculators and mobile phones are not allowed.

Question 1: Values and Team Roles (15 marks)

- a) Distinguish Foundation, Focus, and Future values.

(3 marks)

*“To build character a person must not only **know the good**, but also **desire the good**, and just as importantly, **do the good** over and over again until it becomes a habit.”*

- b) By means of the above statement, discuss how one can internalize an important value for his/her future employment.

(4 marks)

*“Meredith Belbin undertook considerable research into how people work together in teams. The premise which underpins his findings is that effective teams must have certain **key roles** fulfilled.”*

- c) Describe three broad categories that the above roles can categorize. Discuss how those categories will help a team achieve its common goal.

(3 marks)

- d) Assume, You want to make a team to carry out a team to develop software. You can select 5 members for this task. What are the roles (according to Belbin’s roles theory), that you think are most important to fulfill this task? Justify your answer.

(5 marks)

Question 2: Decision Making and Team Diversity (15 marks)

Activists at #NuwanGoGama are representatives of various social groups. They protest against corruption and widespread social injustices. After a few key changes of government in their favor, now they want to decide on their future course of action. They have approached you for your valued consultation on their decision-making.

- a) How do you explain to them, what decision-making is?

(3 marks)

- b) Describe the steps you propose for them to follow to arrive at a decision on a future course of action.

(3 marks)

- c) Briefly describe the pros and cons of decision-making.

(3 marks)

- d) Discuss the role of diversity in the above decision-making process.

(3 marks)

- e) What does it mean by “Cognitive Diversity”? Explain why it is more important than other diversity factors mentioned in d) above.

(3 marks)

Question 3: Computing Landscape and Professional Responsibility (15 marks)

- a) Exponential growth in computational landscape impacts the environment and hence the planet. Protecting the planet for the future generation is a prime concern of IT professionals. Discuss areas that IT professionals should pay attention to avoid environmental issues. (4 marks)
- b) You have been invited by your school to do a speech on “Impact of development in computing on school children.” Write down the good and bad points you want to highlight in the speech. (4 marks)
- c) Describe the importance of accreditation of degree programs by professional bodies. (3 marks)
- d) Discuss two (02) key areas highlighted by CSSL/IET Codes of Ethics (CoE). (4 marks)

Question 4: Entrepreneurship and Intellectual Property (15 marks)

- a) “Value Proposition” and “Customer Segments” are two important segments in Business Model Canvas/Lean Canvas. Describe the “Value Proposition” and “Customer Segments” of the product you developed in one of your projects. (4 marks)
- b) “PEST Analysis followed by a SWOT Analysis helps an organization to develop business strategy.” Briefly describe PEST Analysis and SWOT Analysis. (4 marks)
- c) Name two ICT-related Acts in the Sri Lankan legal system. Briefly describe the focus of each act. (4 marks)
- d) Write an essay on “Computer Crimes” highlighting the areas covered by relevant Acts in our legal system. (3 marks)

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