



Sri Lanka Institute of Information Technology

B.Sc. Honours Degree in Information Technology

Final Examination
Year 2, Semester 2 (2022)

IT2090 – Professional Skills

Duration: 2 Hours

November 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: PDP and Values (15 marks)

- a) *“Gap analysis compares two different states of something: the current state and the desired state.”*
- i. Describe how gap analysis will help you in professional development planning. (2 marks)
 - ii. State the ICT profession that you want to do after graduation. (1 mark)
 - iii. Derive three strategies to achieve any desired skill required to be a professional in ii. above. (Hint: Follow the necessary steps, as described in the professional development planning lecture) (7 marks)
- b) Describe the behavior/thinking pattern of people with positive and negative attitudes. Give at least two examples of each. (2 marks)
- c) Name the four quadrants of the “Johari Window”. Explain the purpose of “Johari Window”. (3 marks)

Question 2: Teams and Team Leadership (15 marks)

A lecturer-in-charge (LIC) of a module has formed 8-member teams to do a 6-month-long software development project. The LIC formed these groups by going through the students’ name list generated at the registration to divide the talents of students equally.

- a) Explain the different stages these teams will undergo according to Bruce Tuckman’s team development stages. Give at least one characteristic behavior that is common in each stage. (4 marks)
- b) Give 2 suggestions that will help the team leader to bring these team members quickly pass the initial stages. (2 marks)
- c) If you are the leader of this team, please prepare a brief talk that you will make at the first group meeting highlighting the characteristics of successful teams. (Just mentioning points that you highlight is enough) (3 marks)
- d) If you are the leader of the above team, what skills or traits will help you to be an effective leader? Explain why you need them. (4 marks)
- e) Write down the action that you would take in your studies to develop the above skills. (2 marks)

Question 3: Computing Landscape and Time Management (15 marks)

- a) COVID-19 has resulted in schools being shut down all across the world. Globally, over 1.2 billion children are out of the classroom. As a result, education has changed dramatically, with the distinctive rise of e-learning, whereby teaching is undertaken remotely and on digital platforms. As with most teaching methods, online learning also has its own set of positives and negatives.
- i. Describes the positive and negative impacts of e-learning. (4 marks)
 - ii. In addition to e-learning, describe three areas that the current computing landscape helped during the COVID-19 lockdown. Give examples. (3 marks)
- b) Name a time-tracking software. Explain how it will help you in managing your time. (2 marks)
- c) Describe four quadrants of the time management matrix (or Eisenhower's matrix). Explain how you can prioritize your work using this matrix to achieve your academic goals. (4 marks)
- d) *"If it's your job to eat a frog, it's best to do it first thing in the morning. And if it's your job to eat two frogs, it's best to eat the biggest one first."* by Mark Twain
How can you relate the above quote to avoid procrastination? (2 marks)

Question 4: Entrepreneurship and Intellectual Property (15 marks)

- a) Is a retail shop owner an entrepreneur? Justify your answer. (3 marks)
- b) Name parts of the *Value Proposition Canvas* (VPC). Develop VPC for the product (or application) that you developed in one of your projects. (If you have not done any product development work, use any product that is available in the market as your product). (4 marks)
- c) Suki, owner of a software development company, reviews the codes of his developers daily. While he was reviewing daily work, he was influenced by a new way of sorting database records that is twice as fast as traditional methods. He understood this new implantation was done by a young, talented, recently joined developer. Suki decides to use this method in future projects.
- i. List different possible *intellectual property* (IP) rights. From them, what IP rights are related to the above scenario? (3 marks)
 - ii. Do you agree with Suki's action? Justify your answer. (5 marks)

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