

University of Ruhuna - Faculty of Technology
Bachelor of Information & Communication Technology Degree
Level 2 (Semester 1) Examination
October 2018

Course Unit: ICT2142, Professional Issues in IT

Time Allowed: 02 hours

Answer all four (04) questions

This question paper contains **04 pages** including this instruction page

IMPORTANT INSTRUCTIONS:

1. The medium of this examination is **English**.
2. This is a **Closed Book** examination.
3. This Examination consists of **four (04)** questions that are given equal marks.
4. You must **answer all four (04)** questions in this examination.

1. a. Write short notes for following terms relates with theories/concepts of law applicable to IT Professionals.
 - i. Criminal Law
 - ii. Civil Law
 - iii. Legal Person
 - b. i. Briefly describe the meaning of **“Profession”** and **“Professional”**. Give **two** examples from each.
 - ii. Describe the difference between **“Reservation of Title”** and **“Reservation of Function”** using an example.
 - c. **“Duty to the Relevant Authority”** is one of the key areas of **“British Computer Society(BCS)’s Code of Conduct”**.
 - i. Briefly describe the term **“Relevant Authority”** by assuming you as a **“student who is working as a part time employee”**.
 - ii. By using suitable examples explain what is meant by **“Members of the British Computer Society(BCS) are expected to behave professionally towards the relevant authority”**.
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2. a. Briefly describe following terms relates an organization.
 - i. Sole Trader
 - ii. Partnership
 - iii. Company
 - b. i. Describe **three major sources of finance** for a company.
 - ii. By using an example from IT industry briefly describe **five** reasons **“Why you need capital for setting up a business”**.
 - c. Soon after the graduation, you and your friends are planning to start a business. For that you have identified two practical options. Start your business as a **“Partnership”** or start the business as a **“Limited Liability Company”**. Explain the advantages of selection of **“Limited Liability Company”** option over **“Partnership”** option **comparing fundamental concepts**.

3. a. Briefly describe following terms using an example for each from IT industry.
- i. Fixed Assets
 - ii. Current Assets
 - iii. Intangible Assets
- b. i. Briefly describe “Direct” and “Indirect” Discrimination.
- ii. By referring a large-scale Software Firm, briefly describe “Job Rotation”, “Job Enlargement” and “Job Enrichment” techniques used in job designing process.
- c. Assume that you are recruited as a project manager for (Internet of Things) IoT related project in a software firm. Your project team is asking for 100 pieces of a specially designed IoT device. Management of the company has provided two options for you that is buying devices or rent out the devices. You have to produce a report to the management by showing which option is the most profitable to the company using Discounted Cash Flow (DCF) analysis.

A new device will cost Rs.1000. There will be annual costs of Rs.50 for insurance and maintenance. At the end of the fourth year, device could be sold for around Rs.200. The interest rate that the company pays on its borrowings is 5%. Renting out cost of the device Rs.300 per year. All the costs are subject to inflation, which is judged to be around 10% over the period, but the resale value of the device is the cash figure expected at the time. Using the table structure given below proceed the calculation.

| | Year 0 | Year 1 | Year 2 | Year 3 |
|-------------------------------|--------|--------|--------|--------|
| Buying the device | | | | |
| Purchase | (1000) | - | - | 200 |
| Insurance + Maintenance | (50) | | | |
| Annual Cash Flow | (1050) | | | |
| Discount Factor | 1 | 0.95 | 0.91 | 0.86 |
| NPV of Annual Flow | (1050) | | | |
| Total NPV | | | | |
| Renting out the Device | | | | |
| Annual Cost | (300) | | | |
| Discount Factor | 1 | 0.95 | 0.91 | 0.86 |
| NPV of Annual Flow | (300) | | | |
| Total NPV | | | | |

4. a. By referring to different types of Intellectual Property Rights, briefly describe following terms.
- i. Copyright
 - ii. Patents
 - iii. Confidential Information
- b. Assume that you are a member of an advisory panel, who is appointed to make recommendations for the current “**Computer Crime Act No.24 of 2007**”. Explain **five** suggestions that you are going to suggest as a panel member.
- c. i. “**UK Data Protection Act 1998**” lays down “**Eight Data Protection Principles**”. List down five data protection principles of that.
- ii. You are a very loyal fan to Sri Lankan cricket team. Due to the continuous past match losses, you were very angry with one of the key player and you have put a statement on your social media account by saying that the player is corrupt, got bribes and fix the last One Day International (ODI) match. Someone draws the player’s attention about your statement and the player believes that his reputation has badly damaged by that statement and the player wants a compensation.
Describe the potential **defamation** issues in this situation.

| | Year 0 | Year 1 | Year 2 | Year 3 |
|-------------------------------|--------|--------|--------|--------|
| Buying the device | | | | |
| Purchase | (1000) | - | - | 200 |
| Insurance + Maintenance | (50) | | | |
| Annual Cash Flow | (1050) | | | |
| Discount Factor | 1 | 0.95 | 0.91 | 0.86 |
| NPV of Annual Flow | (1050) | | | |
| Total NPV | | | | |
| Renting out the Device | | | | |
| Annual Cost | (300) | | | |
| Discount Factor | 1 | 0.95 | 0.91 | 0.86 |
| NPV of Annual Flow | (300) | | | |
| Total NPV | | | | |