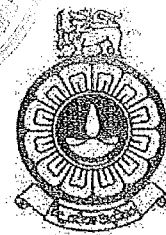


THE OPEN UNIVERSITY OF SRI LANKA
B.Sc. (IT) DEGREE PROGRAMME 2023/2024
LEVEL 05
ISU5301 – INDUSTRY SUSTAINABILITY AND LAW
FINAL EXAMINATION
DURATION: TWO HOURS ONLY (2 HOURS)



0007

Date: 07.12.2024

Time: 09.30 a.m. – 11.30 a.m.

General Instructions.

1. Read all instructions carefully before answering the questions.
 2. This question paper consists of 02 parts (Part I and Part II) and 06 questions on 03 pages.
 3. Answer 04 questions by selecting any 02 questions from PART I and any 02 questions from PART II.
 4. All questions carry equal marks.
 5. The answer for each question should commence from a new page.
 6. Use blue or black ink to answer the questions.
 7. Clearly state your index number in your answer script.
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Part I

Q1.

- a) Define the term *sustainability* and mention three (03) pillars of sustainability. [05 Marks]
- b) Briefly explain importance of sustainability in IT using three (03) key points. [06 Marks]
- c) Briefly explain the three (03) key considerations in algorithm design? [06 Marks]
- d) Explain the environment and social impact of E-Waste. [08 Marks]

[Total 25 Marks]

Q2.

- a) Write three (03) benefits of telecommuting. [03 Marks]
- b) Mention three (03) measures put in place by the government and other institutions to tackle the imbalance between supply and demand for skilled labor? [06 Marks]
- c) Briefly explain following pricing strategies employ by computing firms?
 - i. Versioning
 - ii. Penetration pricing
 - iii. Subscription-based pricing [06 Marks]

- d) State two (02) employment and two (02) economic impacts of outsourcing software development. [10 Marks]

[Total 25 Marks]

Q3.

- a) Define the term “*Entrepreneur*” and mention four (04) entrepreneurial characteristics. [08 Marks]
- b) List three (03) benefits of entrepreneurship for individual and organizational each. [06 Marks]
- c) Sketch a diagram of the five stage entrepreneurial process. [05 Marks]
- d) Differentiate between a business idea and business opportunity using three (03) points. [06 Marks]

[Total 25 Marks]

Part II

Q4

- a) What is the meaning of intellectual property law? Explain with necessary examples. [04 Marks]
- b) Mention two (02) main reasons why countries should enact laws to protect intellectual property. [06 Marks]
- c) State three (03) main international legal instruments dealing with intellectual property rights. [06 Marks]
- d) Briefly explain three (03) key characteristics of intangible digital intellectual properties. [09 Marks]

[Total 25 Marks]

Q5.

- a) Define the term “right to privacy”. [3.5 Marks]
- b) Briefly explain four (04) recent developments in Sri Lankan law relating to right to privacy. [08 Marks]
- c) Briefly explain the following elements of a contract.
- i. Offer
 - ii. Acceptance
 - iii. Legality of purpose [06 Marks]

d) Briefly explain the following technological strategies that we can use to manage digital rights.

- i. Access control
- ii. Usage restrictions
- iii. License management

[7.5 Marks]

[Total 25 Marks]

Q6

- a) Outline four (04) aims of data protection laws. [04 Marks]
- b) Mention three (03) obligations of data controllers and processors. [06 Marks]
- c) List three (03) specialized institutions that have been established in Sri Lanka to prevent cybercrime. [06 Marks]
- d) Briefly define what cyber crime is and mention three (03) categories of computer-related crimes. [09 Marks]

[Total 25 Marks]

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