



UNIVERSITY OF COLOMBO, SRI LANKA

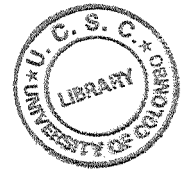
UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING

**BACHELOR OF SCIENCE IN COMPUTER SCIENCE
BACHELOR OF SCIENCE IN INFORMATION SYSTEMS
BACHELOR OF SCIENCE HONOURS IN COMPUTER SCIENCE
BACHELOR OF SCIENCE HONOURS IN SOFTWARE ENGINEERING
BACHELOR OF SCIENCE HONOURS IN INFORMATION SYSTEMS**

Academic Year 2020/2021 – Third Year Examination – Semester I – 2021

SCS 3215/IS 3105 – Professional Practice – Part A

TWO (2) HOURS (for Part A & B)



127

To be completed by the candidate

Examination Index No:

Important Instructions to candidates:

1. The medium of instruction and questions is **English**.
2. The questions appear on both sides of the paper.
3. If a page or a part of this question paper is not printed, please inform the supervisor immediately.
4. This paper consists of two parts, Part A (Question No 1 and Question No 2) and Part B (Question No 3 and Question No 4).
5. **Submit each part separately.**
6. This part has **02** questions and **07** pages.
7. Answer **ALL** questions. All questions carry equal marks (25 marks).
8. **Write your index number on each and every page of the Question paper.**
9. Any electronic device capable of storing and retrieving text including electronic dictionaries and mobile phones are **not allowed**.
10. Calculators are **allowed**.

For Examiner's use only

Question No	Marks
1	
2	
Total	

Index No:

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Question 1

The “ACM Code of Ethics and Professional Conduct (“the Code”) expresses the conscience of the profession.

- a) The Code is designed to inspire and guide Computing Professionals. List three (3) different parties explicitly listed under "the Code" other than current practitioners.

(3 Marks)

- b) Certain professions are considered as matured professions or well-developed professions. Attorneys and Medical Practitioners are two examples. Identify two (2) similarities and two (2) differences between a Computing Professional and a Professional in a matured or well-developed profession.

(12 Marks)

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- c) The Code is periodically updated after a thorough consultation process. Discuss two (2) improvements to “the Code” with justifications to make a better Code.

(10 Marks)

Improvement 1

Improvement 2

Index No:

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Question 2

Consider the following statement under “the ACM Code of Ethics and Professional Conduct” and the situation where the schools in Sri Lanka started delivering lessons only online due to the recent pandemic in answering this question (Question 2: (a) –(d)).

The Code states, “*When the interests of multiple groups conflict, the needs of those less advantaged should be given increased attention and priority.*”

Several groups/parties were involved and affected when the schools started conducting lessons/classes only online.

- a) List **six (6)** such different groups or parties affected due to conducting only online lessons/classes or being involved in delivering classes/lessons online

(6 Marks)

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- b) Briefly explain a situation where the interests of the two previously mentioned groups conflict with each other.

(6 Marks)

- c) Identify three (3) less advantaged groups or parties in the above scenario. Justify your answer.

(6 Marks)

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- d) As a Computing Professional, how would you provide more attention and priority to such less advantaged communities or groups? Justify your answer by providing two examples.

(7 Marks)



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This paper has **02** questions and **08** pages.

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Non-Programmable calculators are **not allowed**.

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Question No	Marks
3	
4	
Total	

Index No:

Part B

Question 3

- (a)
- (i) List two (02) effects of cyberbullying.

[2 Marks]

- (ii) State two (02) examples of how cyberbullying typically occur in the professional workplace.

[2 Marks]

Index No:

- (iii) Briefly discuss (02) methods to prevent or minimize cyberbullying in the workplace.

[4 Marks]

- (iv) Discuss why reporting cyberbullying is important?

[3 Marks]

(b)

- (i) List the classifications of computer crimes that are addressed in the “Computer Crime Act No. 24 of 2007” of Sri Lanka.

[2 Marks]

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- (ii) Briefly describe the following types of cybercrime. And clearly state a method that can be used to protect yourself from the given cybercrime.

[9 Marks]

A. Identity Theft

B. Adware

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C. *Cyber Piracy*

- (iii) Which of the cybercrimes given above (b-ii) are **NOT** covered by the “Computer Crime Act No. 24 of 2007” of Sri Lanka?

[1 Marks]

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- (iv) List down two (02) solutions to the challenges and shortcomings of the “Computer Crime Act No. 24 of 2007”.

[2 Marks]

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Question 4

(a)

- (i) Identify and list down the type of software piracy presented in the following cases where illegal copies of software are circulated among computer users.

[5 Marks]

A. <i>Installing software that is licensed to an organization on a home-based computer.</i>
B. <i>Making a copy of commercial software with a CD-burner and including a photocopy of the manual.</i>
C. <i>A vendor is providing drivers to a specific printer without authorization.</i>
D. <i>An internet vendor installing an unauthorized copy of Windows 98 onto a computer system being sold to a consumer.</i>
E. <i>Sharing software among friends.</i>

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- (ii) Briefly describe two (02) methods to prevent software piracy.

[4 Marks]

- (iii) State whether the following actions are legal or not. Justify your answer, providing reasons.

[6 Marks]

A. <i>“Operators of shopping malls often play background music by Mozart or Beethoven to create a comfortable environment.”</i>
B. <i>“In the absence of an agreement, photographers are entitled to display photos of people that they themselves have photographed publicly.”</i>

Continued

Index No:

- (b)
- (i) List three (03) features of E-commerce?

[3 Marks]

- (ii) Briefly explain the purpose of UNCITRAL model law on E-commerce.

[3 Marks]

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- (iii) List two (02) objectives of the 'Electronic Transactions Act, No. 19 Of 2006' issued by the parliament of Sri Lanka.

[4 Marks]
