



UNIVERSITY OF COLOMBO, SRI LANKA

UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING



DEGREE OF BACHELOR OF INFORMATION TECHNOLOGY (EXTERNAL)

Academic Year 2011/2012 – 3rd Year Examination – Semester 5

IT5104 - Professional Issues in IT ***Structured Question Paper with Model Answers***

03rd March, 2012
(TWO HOURS)

To be completed by the candidate

BIT Examination Index No:

Important Instructions:

- The duration of the paper is 2 (two) hours.
- The medium of instruction and questions is English.
- This paper has 4 questions and 12 pages.
- Answer all questions.
- All Questions carry equal marks.
- Write your answers in English using the space provided in this question paper.
- Do not tear off any part of this answer book.
- Under no circumstances may this book, used or unused, be removed from the Examination Hall by a candidate.
- Note that questions appear on both sides of the paper.
If a page is not printed, please inform the supervisor immediately.

Questions Answered

Indicate by a cross (×), (e.g. ☐) the numbers of the **four** questions answered.

	Question numbers			
	1	2	3	4
<u>To be completed by the candidate by marking a cross (×).</u>				
To be completed by the examiners:				

- 1) (a) For each of the following two clauses in the Code of Ethics of the Computer Society of Sri Lanka (CSSL) explain the purpose of the clause.

(i) Clause 4: Develop knowledge, skill & competence in the field of ICT

(04 marks)

ANSWER IN THIS BOX

(ii) Clause 5: Perform services only in areas of competence

(04 marks)

ANSWER IN THIS BOX

- (b) What action should one take if he/she gets to know of any significant violation of the code of ethics/conduct by a professional?

(01 mark)

ANSWER IN THIS BOX

- (c) BCS The Chartered Institute for IT, code of conduct has four sections namely: Public Interest, Professional Competence and Integrity, Duty to Relevant Authority and Duty to the Profession.

- (i) What are the issues that come under Duty to Relevant Authority?

(08 marks)

ANSWER IN THIS BOX

(ii) What are the issues that come under Duty to the Profession?

(08 marks)

ANSWER IN THIS BOX

- 2) (a) Outline five (5) tasks that are expected to be undertaken by the Human Resource Department in an Organization in order to ensure that the organization has the workforce that it needs.

(05 marks)

ANSWER IN THIS BOX

- (b) Explain the distinction between the two terms recruitment and selection.

(02 marks)

ANSWER IN THIS BOX

- (c) Write brief notes on the following three selection techniques and outline their advantages and disadvantages.

(i) Interview by a panel

(06 marks)

ANSWER IN THIS BOX

(ii) Psychometric tests

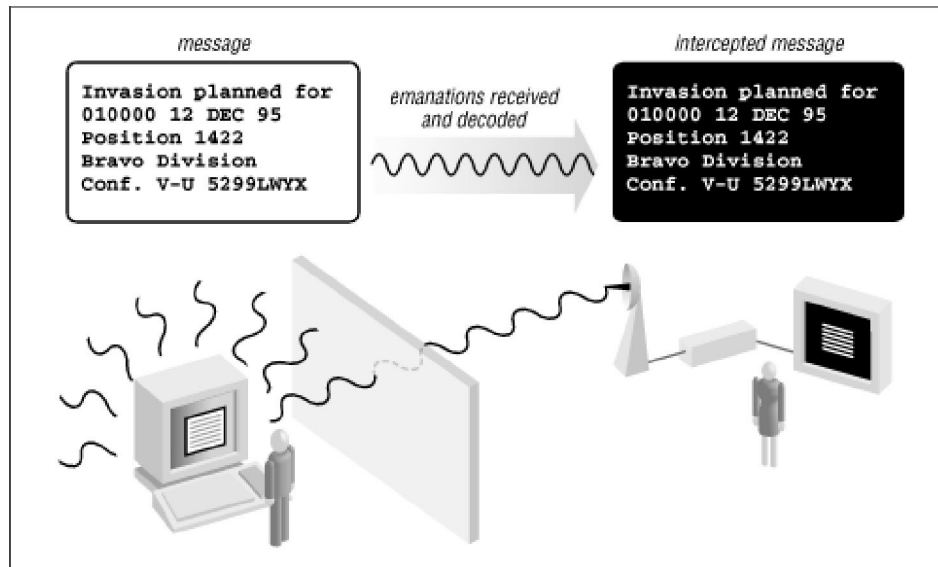
(06 marks)

ANSWER IN THIS BOX

(iii) Task assessment

(06 marks)ANSWER IN THIS BOX

- 3) The following figure illustrates electronic emanations from computer equipment being intercepted.



- (a) Describe briefly the section of the Computer Crimes Act No. 24, 2007 of Sri Lanka under which the above action can be found guilty of a computer crime.

(06 marks)ANSWER IN THIS BOX*Continued...*

(b) If a person is convicted of the above crime what would be the punishment he/she would be given?

(06 marks)

ANSWER IN THIS BOX

(c) Consider the following action.

A programmer planted a computer virus in his employer's computer system which wiped off all the payroll records. It was activated as a time bomb, doing its damage two days after he was fired. The program was written to search for his name among pay-roll records and if not found to activate the time bomb, thereby deleting all the records.

Describe briefly the section of the Computer Crimes Act No. 24, 2007 of Sri Lanka under which the above action can be found guilty of a computer crime.

(08 marks)

ANSWER IN THIS BOX

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(d) If the person is convicted of the above crime what would be the punishment he/she would get.

(05 marks)

ANSWER IN THIS BOX

4) (a) What are greenhouse gases?

(05 marks)

ANSWER IN THIS BOX

(b) Briefly explain three anthropogenic causes of global warming and how they contribute to global warming.

(12 marks)

ANSWER IN THIS BOX

Continued...

- (c) Give "good housekeeping" user initiatives that can be used to decrease the environmental impact of computing.

(02 marks)

ANSWER IN THIS BOX

- (d) Beyond the "good housekeeping" user initiatives, there are a number of more fundamental steps that can be taken to significantly decrease the environmental impact of computing. What are these steps?

(06 marks)

ANSWER IN THIS BOX

Continued...

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