

### **UNIVERSITY OF COLOMBO, SRI LANKA**



## UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING

DEGREE OF BACHELOR OF INFORMATION TECHNOLOGY (EXTERNAL)

Academic Year 2014/2015 – 3<sup>rd</sup> Year Examination – Semester 5

# IT5104 - Professional Issues in IT Structured Question Paper

7<sup>th</sup> March, 2015 (TWO HOURS)

| To be completed by the candidate |
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| BIT Examination Index No:        |
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#### **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.

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Indicate by a cross (x), (e.g. X ) the numbers of the questions answered.

|  | Ques | tion nun | nbers |   |  |
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| To be completed by the candidate by marking a cross (x). | 1    | 2        | 3     | 4 |  |
| To be completed by the examiners:                        |      |          |       |   |  |
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| Index No: |  |
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### **CASE STUDY - Scenario 1**

Geetha had some bad experiences in her family as a young person at the age of 6. Her father died of a heart attack on a flight from Singapore to Sri Lanka when returning from a family holiday and Geetha was a witness to this incident. Since then she has been very nervous and shy in school. She often seemed exhausted in class and sometimes fell asleep. Staff learned that this was because she had nightmares and sleep problems. When she was young, Geetha had a few panic attacks getting onto an aircraft or even a train. A doctor diagnosed Geetha with post-traumatic stress, an illness that affects people who have had traumatic experiences.

Geetha's post-traumatic stress decreased over time with medication and therapy and, she is now an undergraduate in a University. She has friends and is much more outgoing. Her sleep is normal and she has not had a panic attack since she was 16. However, her mother still tends to think of her as delicate. Geetha has been offered a student exchange programme by the University for one year in a foreign country and she is very excited about it and keen to participate. Her mother is worried that Geetha may panic or may not cope with the trip and brings it to the attention of the University authorities who decide that Geetha should not travel abroad.

- 1) Answer parts (a), (b), (c) using Scenario 1 given above.
  - (a) Is what is described in Scenario 1 discrimination? Give reasons to support your answer and if it is so then also identify what kind of discrimination it is.

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| )  | How should the University and Geetha's mother have handled this?   | (03 marks)   |
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| )  | What action could Geetha have taken?   | (02 marks)   |
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| l) | Sunil often goes to a video shop with his friends after school. Howe hands and, last time he went, Sunil noticed a sign at the door saying his school bag with him, he did not go in, but he was upset about this. |  |
|    | Could the sign in the shop be discrimination and How? What type of d   | liscrimination would it be?<br>( <b>04 marks</b> ) |
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(b) The clauses given in Column A belong to the 4 sections of the BCS Code of Conduct. Write the name of the correct section against each clause in Column B. See Row 1 for an example.

(11 marks)

|   | Column A   | Column B |
|---|--|----------|
| 1 | Only undertake to do work or provide a service               |          |
|   | that is within your professional competence.                 |          |
| 2 | Respect and value alternative viewpoints and, seek,          |          |
|   | accept and offer honest criticisms of work.                  |          |
| 3 | Have due regard for the legitimate rights of Third  Parties. |          |
| 4 | Uphold the reputation and good standing of BCS, the          |          |
|   | Chartered Institute for IT.                                  |          |
| 5 | Have due regard for public health, privacy, security and     |          |
|   | wellbeing of others and the environment.                     |          |
| 6 | NOT misrepresent or withhold information on the              |          |
|   | performance of products, systems or services (unless         |          |
|   | lawfully bound by a duty of confidentiality not to disclose  |          |
|   | such information), or take advantage of the lack of          |          |
|   | relevant knowledge or inexperience of others.                |          |
| 7 | Avoid injuring others, their property, reputation or         |          |
|   | employment by false or malicious or negligent action         |          |
|   | or inaction.   |          |
| 8 | Notify BCS if convicted of a criminal offence or upon        |          |
|   | becoming bankrupt or disqualified as a Company Director      |          |
|   | and in each case give details of the relevant jurisdiction.  |          |

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| 9  | Accept professional responsibility for your work and for   |           |
|    | the work of colleagues who are defined in a given  |           |
|    | context as working under your supervision.   |           |
| 10 | Reject and will not make any offer of bribery or unethical   |           |
|    | inducement.  |           |
| 11 | Promote equal access to the benefits of IT and seek to   |           |
|    | promote the inclusion of all sectors in society wherever   |           |
|    | opportunities arise.   |           |
| 12 | Conduct your professional activities without discrimination  |           |
|    | on the grounds of sex, sexual orientation, marital status,   |           |
|    | nationality, colour, race, ethnic origin, religion, age or   |           |
|    | disability, or of any other condition or requirement   |           |
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|    | strate the following clauses of the BCS Code of Conduct giving a Seek to avoid any situation that may give rise to a conflict of Relevant Authority. | -         |
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| CASE STUDY - Scenario 2  An eavesdropping (spying) device with a microphone may be installed in a private car to record nonitor speech within that car. If one or both ends of a telephone conversation held in that car coorded during the course of the operation, this will not constitute unlawful interception provided levice obtains the product from the sound waves in the vehicle and not by interference with, nodification of, any part of the telecommunications system. Proper authorizations would be needed such installation to be legal.  The Regulations of Investigatory Powers Act (RIPA) 2000, sets up a frame work controlling the law interception of computer, telephone and postal communications. Scenario 2 given in the case study is example for such interceptions.  a) List the authorities (organizations) that are allowed by the above Act to intercept, monitor a investigate electronic data. For what purpose could this data be used? |                                  | (05 mar)   |
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| ) What other organizations can monitor and record commun the service under the RIPA Act? |   |
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| The above organizations can monitor and record comm                                      | unications provided it is done for certain            |
| The above organizations can monitor and record comm purposes. List eight such purposes.  | unications provided it is done for certain (08 marks) |
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| CASE STUDY - Scenario 3  |     |
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| en Solar radiation from the sun reaches earth, things on earth like plants take in the sunlight. T   |     |
| over heat goes back into space. With the increase in greenhouse gases, the leftover solar rays are i |     |
| to escape back into space. Instead they are kept inside Earth atmosphere and as a result the earth   | 1'S |
| perature rises.  |     |
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| How do the events described in Scenario 3 affect the lives of people?                                |     |
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| What are some of the Greenhouse gases that lead to above effect | ots?      |
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| List six measures of Green Computing.                           |           |
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| List six measures of Green Computing.  ANSWER IN THIS BOX       | (06 mark  |
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|       | n the blanks in the paragraphs numbered (i) to (v) with the most appropriate words selected from list given below.  |
| Con   | vel Reduction, Virtualization, Dematerialization, Good Housekeeping, Teleworking, Cloud nputing, Increase Business Efficiency, Less Pollutant Manufacture, Improved repair-Re-Recycling and Disposal  |
| (i) A | A typical desktop computer uses about 8W of electricity an hour when shut down but not switched off. That's about 1KW of electricity being wasted a week for a PC turned off around 16 hours a day. It therefore really is worth remembering that simply turning off a PC at the back or at the wall when not in use can have a major impact on energy consumption and its environmental impact. This may be known as |
| (ii)  | Associated with the use of the Internet – It can help us to be greener by enabling  |
| (iii) | Most obviously, some face-to-face meetings can now quite effectively be replaced with audio or video conferences. This can be facilitated with access to the latest tools which will reduce the number of business trips made. The environmental savings made through   |
| (iv)  | With many company resources (including e-mail, intranets and SaaS applications) now often available anytime, anywhere online,   |
| (v)   | A great many hazardous chemicals - including lead, mercury, cadmium, beryllium, brominated flame retardants (BFRs) and polyvinyl chloride (PVC) are used to make computers. There are also some interesting new products starting to become available, including some computers that have substituted bamboo for some of the plastics used in the casing. This kind of initiatives will lead to(v)                    |
|       | (15 marks)  |
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