



University of Kelaniya – Faculty of Social Sciences

Academic Year 2017/2018

Bachelor of Arts Honors Degree First Year

First Semester Examination- July/August 2019

Social Statistics

SOST 21444 – Introduction to Computer Science

Answer any Four (04) questions including question number 01.

No. of Questions: 07

Time: 03 hours

01. A. Choose the correct answer and write its letter on your answer paper

- i. Which of the following is designed to control the operations of a computer?
 - a) Application Software
 - b) System Software
 - c) Utility Software
 - d) Driver Software

- ii. Which of the following is internal component of a PC?
 - a) Keyboard
 - b) Modem
 - c) Scanner
 - d) CPU

- iii. What does GUI stand for?
 - a) Graphical User Instruction
 - b) Ground User Interface
 - c) General User Instruction
 - d) Graphical User Interface

- iv. CPU provides enabling signals through
 - a) Control Bus
 - b) Data Bus
 - c) Address Bus
 - d) Ordinary Bus

- 03). i. "Central Processing Unit (CPU) is the brain of the computer". Do you agree with this statement? Explain (05 Marks)
- ii. What is meant by "Clock Speed" of a processor? (05 Marks)
- iii. Explain the key components of Motherboard (10 Marks)
- 04) i. Identify three different buses used in a computer system (06 Marks)
- ii. "Storage devices are used for storing, porting and extracting data files and objects". Discuss with respect to the two types of storage devices in a computer system (10 Marks)
- iii. Explain briefly input and output devices (04 Marks)
- 05) i. "The Network allows computers to connect and communicate with different computers via any medium". Discuss with reference to the types of network in computer system (06 Marks)
- ii. Identify the main differences among each type of network topologies (10 Marks)
- iii. What are things that should be considered when choosing a topology? (04 Marks)
- 06) i. Convert following numbers into
- A. Binary
- | | | | |
|--------------|---------------|-----------------|------------------|
| a) 65_{10} | b) 123_{10} | c) 2.828_{10} | d) 25.92_{10} |
| e) 67_8 | f) 527.62_8 | g) $F9_{16}$ | h) $30. E8_{16}$ |
- B. Octal
- | | | | |
|----------------|-----------------|-----------------|-------------------|
| a) 1110110_2 | b) 10011111_2 | c) 110.1101_2 | d) 1001.11111_2 |
|----------------|-----------------|-----------------|-------------------|