## SOUTH EASTERN UNIVERSITY OF SRI LANKA

## FIRST EXAMINATION IN BACHELOR OF INFORMATION AND COMMUNICATION TECHNOLOGY - 2016/2017

## SEMESTER - I, SEPTEMBER 2018

## CIS11011 - ESSENTIALS OF ICT AND PC APPLICATIONS

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Question 01:			

a) i. Define **Information and Communication Technology (ICT)** using key technologies involved in ICT.

(06 marks)

Time: 01 hour

ii. Differentiate **Discrete** and **Continuous** data types, and provide **two** (02) suitable examples for each.

(06 marks)

iii. State four (04) main characteristics of information.

Answer all Questions.

(04 marks)

iv. Provide two (02) examples for each natural system and artificial system.

(04 marks)

[Total 20 marks]

b) i. Classify the computers according to the technology used.

(06 marks)

ii. What are high level and low level programming languages? Categorize the generations of computer programming languages with respect to high level and low level programming languages.

(09 marks)

iii. Differentiate compiler and interpreter in computer program translation.

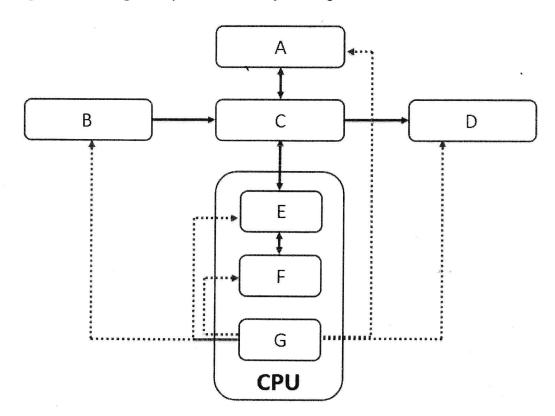
(04 marks)

iv. What is meant by an <b>Operating system</b> ? Write <b>three</b> (03) popular operation	ating systems.
	(06 marks)
v. Provide five (05) features (characteristics) of operating system.	
	(05 marks)
	[Total 30 marks]
Question 02:	
a) i. What is meant by <b>resolution</b> in computer graphics? State <b>four</b> (04) applic <b>computer graphics</b> .	cations of
	(06 marks)
<ol> <li>What does it mean by Communication software? Give one (01 synchronous and asynchronous communication software respectively.</li> </ol>	) example for
	(04 marks)
iii. What is meant by <b>Bus</b> in a computer system?	
	(02 marks)
iv. Briefly explain the following utilities of a computer system.	
a. Disk Partition	
b. File system	(08 marks)
	[Total 20 marks]
b) i. What are the <b>three</b> (03) types of <b>CPU packaging</b> ?	
	(03 marks)
ii. Name <b>four</b> (04) expansion slots can be found on a motherboard with format.	its full naming
	(08 marks)

- iii. Organize the following steps of booting process of a computer in order.
  - a. Start operating system
  - b. Copy OS files from boot drive to RAM
  - c. Read master boot record on Boot drive
  - d. Power On Self-Test (POST)
  - e. Switch on the system
  - f. Read Bootstrap Loader
  - g. Power supply to motherboard
  - h. BIOS get activated

(08 marks)

iv. Data flow and control instruction flow of a computer system could be shown using an abstract model block diagram given below. Name the **components/ parts of the block diagram of a computer system** labeled by the English letters.



(07 marks)

v. What are the **two** (02) main components of a chipset?

(04 marks)

[Total 30 marks]