ELIZADE UNIVERSITY

ILARA-MOKIN

FACULTY: BASIC AND APPLIED SCIENCES
DEPARTMENT: MATHEMATICS AND COMPUTER SCIENCE
1st **SEMESTER EXAMINATION**
2017 / 2018 **ACADEMIC SESSION**

COURSE CODE: CSC 433

COURSE TITLE: Emerging Technologies

COURSE LEADER: Dr. (Mrs.) Bola Ojokoh

DURATION: 2 ½ Hours

HOD's SIGNATURE

INSTRUCTION:

Candidates should answer any THREE Questions.

The exam paper is worth 60% of the overall mark for EMERGING TECHNOLOGIES.

Students are warned that possession of any unauthorized materials in an examination is a serious offence.

1a. Internet of Things (IoT) is a system of interrelated computing devices, mechanical and digital machines, objects, animals or people that are provided with unique identifiers and the ability to transfer data over a network without requiring human-to-human or human-to-computer interaction. The technologies required for this system are diverse. Discuss.

b. Provide a brief history of IoT.

c. Discuss four classifications of Cloud Computing based on service provided.

2a. Smart Cities are rooted in the implementation of user-friendly ICT technologies developed by major industries for urban spaces. Identify and discuss six dimensions of their description.

b. Discuss three major challenges of adopting Internet of Things.

c. Describe four types of Cloud Computing.

3a. What is Big Data? Identify four major activities carried out on Big data. Discuss four important characteristics of Big data.

b. List six devices that could be found in a smart home application and their uses.

c. Internet of Things (IoT) dramatically increase the amount of data available to humans, but these data will not be as useful if there are not processed accordingly. Describe with the aid of diagram the stages involved while humans turns these raw and massive data to wisdom.

4a. Cloud computing is an IT paradigm that enables ubiquitous access to shared pools of configurable system resources and higher-level services that can be rapidly provisioned with minimal management effort, often over the Internet. Cloud computing offers a number of benefits, discuss five of these.

b. Outline three advantages and disadvantages of portable applications?

c. Document a short note of about 150 words on the emerging Computing technologies you were exposed to during your SIWES.