



**DEDAN KIMATHI UNIVERSITY OF TECHNOLOGY
UNIVERSITY EXAMINATIONS 2020/2021 ACADEMIC YEAR
FIRST YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR THE DEGREE
OF BACHELOR OF SCIENCE IN CIVIL ENGINEERING**

SMA 2174: INTRODUCTION TO COMPUTERS

DATE: 19TH OCTOBER 2021

TIME: 2:00-4:00PM

INSTRUCTIONS TO CANDIDATES

There are four questions in this exam. Answer question one and any other two question. Label your answers correctly. Begin each question on a fresh page

QUESTION ONE (Compulsory) (30 MARKS)

- (a) A computer requires reasonable maintenance for it to serve you well. Explain for methods you would use to ensure that your computer is in a good working condition (4 marks)
- (b) Clearly explain what you understand by the term computer and outline its four functions (6 marks)
- (c) Assume your friend has asked you to explain why you had to register for Introduction to computer applications, a computer science unit, yet your bachelors degree is in tourism. *Explain five* reasons you would give your friend to enable him see the logic behind the course. (10 marks)
- (d) Describe how you would go about adopting internet in an organization (5 marks)
- (e) Assume that you just joined and new organisation as management trainee only to notice that they have no Internet connection. *Explain five* reasons on why you think it is important to have an Internet connection in this organization (5 marks)

QUESTION TWO (20 MARKS)

- a) Draw a directory tree showing how files and folders are organized by an operating system. (5 marks)
- b) Classify the following software as either operating system or application software. (5marks)

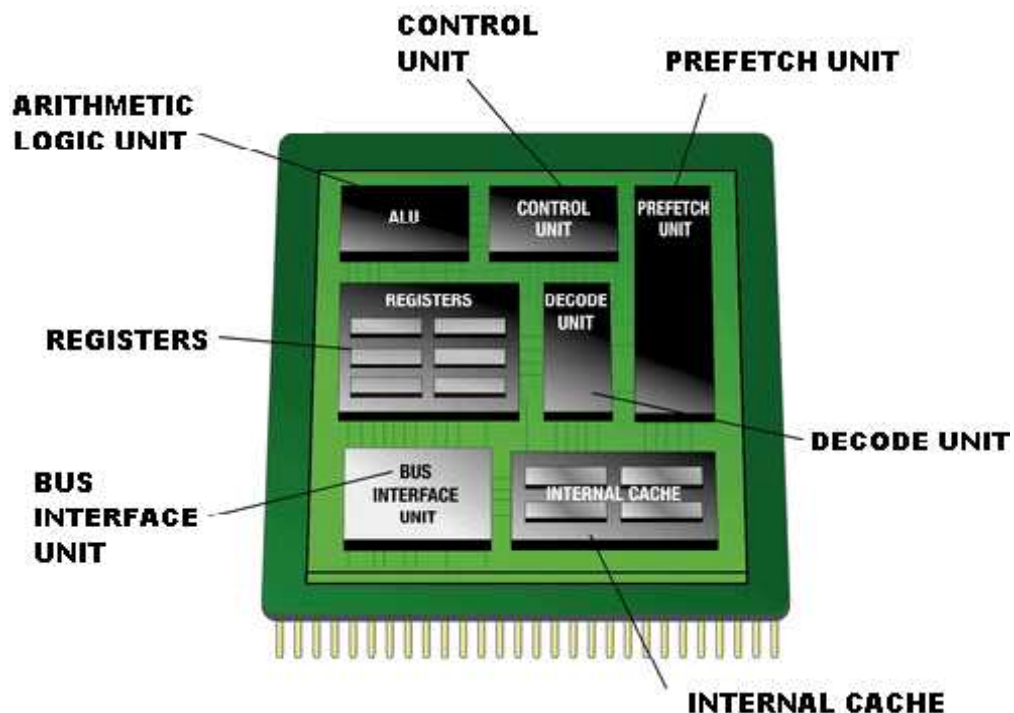
Sage, Ms Windows, novel, Linux, word perfect, UNIX, lotus 1-2-3, ms Access

<i>Operating systems</i>	<i>Application software</i>

- c) Joseph has been advised by his supervisor to appropriately align text on a memo he was formatting using word processing software. With an aid of sketches, explain **four** types of alignments he could use. (8 marks)
- d) Explain the term hard disk formatting (2 marks)

QUESTION THREE (20 MARKS)

- (a) What do you understand by the following terms as used in computers (6marks)
- (i) Hardware
 - (ii) Peripheral devices
 - (iii) System Software
- (b) The diagram below shows the internal parts of CPU. Describe the function of each of the parts shown below (14marks)



QUESTION FOUR (20 MARKS)

- (a) It is argued that in today's world, an organization may not function efficiently without networking their computers, describe five advantages and disadvantages of computer networks (10 marks)
- (b) Using valid examples, *differentiate* between the following terms as used in computers: (10 marks)
- a) Input and Output devices
 - b) Information and Data
 - c) System Software and Application Software
 - d) Primary Memory and Secondary Memory
 - e) Virus and Anti-virus