

THE OPEN UNIVERSITY OF TANZANIA

FACULTY OF SCIENCE, TECHNOLOGY AND ENVIRONMENTAL STUDIES

OCP 100: INTRODUCTION TO MICROCOMPUTER STUDIES AND INFORMATION TECHNOLOGY I

SPECIAL MAIN TIMED TEST

DATE: Tuesday, 26 June 2012

TIME: 10:45 – 12:45 HRS

INSTRUCTIONS:

- This test consists of **FOUR (4)** questions, attempt **ALL** questions
- Total marks **100**
- Write your **Name, Registration number** and you are advised to write legibly and in an organized way.

1. Attempt the following short answer questions related to microcomputer technology: [37 Points]
 - a) Define the term '**Computer System**'.
 - b) What do you understand by the term '**Operating System**'? Describe any **FOUR (4)** functions of the operating system.
 - c) Mention **ONE (1)** example for each of the following items: **Primary Memory, System Software, Application Software, Proprietary Software, Input Device** and **Peripheral Device**.
 - d) Write the long forms of the following abbreviations as used in IT industry: **CD, USB, DVD, ALU, COBOL, UPS, LCD, GIGO, CRT, BIOS, IBM, OSS, GUI, DASD** and **ROM**.
 - e) Distinguish between the following:
 - i. *Decimal and Binary Numbers*
 - ii. *Optical and Magnetic disks*
 - iii. *Bit and Byte*.
 - iv. *Hardware and Software*
2. Suppose a 32 bit computer is used to type the following statement and appears on the computer screen as follows: (ignore double quotes) **"2012 is the OUT 20th Anniversary"** [12 Points]
 - a) Calculate the number of bytes associated with the statement.
 - b) Calculate the number of bits associated with statement.
 - c) State the primary input and output devices for the statement.
 - d) Where is the statement stored shortly after typing the statement?
3. Answer if the following are True or False, and if False explain briefly why: [1.5 Each = 30 Points]
 - a) COBOL, PASCAL and FORTRAN are examples of high level languages.
 - b) Hardware is an interface between the operating system and application software.
 - c) Machine language consists of octal numbers.
 - d) A flash of capacity 256 MB is roughly equivalent with 355 standard floppy diskettes (1440KB).
 - e) Deleting data to the recycle bin is also called a soft delete.

- f) The CPU speed is normally measured in terms of hertz.
- g) Pathnames in MS DOS uses backward slashes (\) while a URL uses forward slashes (/).
- h) The folder name does not possess extension to allocate type.
- i) Flash disk is good example of magnetic and removable disks.
- j) A Byte is the basic unit for measuring the size of memory in computer.
- k) Registers are high speed storage devices within the CPU.
- l) Machine Cycle Time is a processing characteristic of the CPU.
- m) Clock Speed is a processing characteristic of the CPU.
- n) Word Length is a processing characteristic of the CPU.
- o) Both supercomputer and mainframe are multiprocessors.
- p) WordArt is a MS Word feature available under the FORMART menu.
- q) 1 KB = 1024 Bytes.
- r) 1 GB = 1000 KB.
- s) 1 KB is approximately equals to 8000 bits.
- t) Screensaver is a program applicable when computer is idle.

4. When considering a Microsoft Word 2003 program:

[21 Points]

- a) Mention **TWO (2)** sub menus available in **INSERT** menu.
- b) Briefly explain how to use WordArt feature in the document.
- c) Mention ONE example for each of the following:
 - (i). A MS Word Font
 - (ii). A MS Word Style
 - (iii). A sub-menu under the FILE menu.
 - (iv). A sub-menu under the EDIT menu.
- d) What are the keyboard shortcuts to perform the following tasks?
 - (i). Undo Action
 - (ii). Redo Action
 - (iii). Move Text
 - (iv). Select the whole document/text.
 - (v). Save File
- e) What do you understand by the term '**Technophobia**'?

END
