



27<sup>th</sup> April, 2017

## THE COPPERBELT UNIVERSITY

### PE310/EDC310 TEST

#### INSTRUCTIONS

**Answer all questions in the space provided – No back page will be checked. All marks add up to 40. Marks are indicated beside each question. Time allowed is 60 minutes.**

#### PERSONAL DETAILS

PROG: \_\_\_\_\_ NAME: \_\_\_\_\_ SID: \_\_\_\_\_

#### QUESTION ONE.

- a) A computer is considered to be a powerful device because:

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[5 marks]

- b) The initial function of the BIOS is to

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[3 marks]

- c) Utility software consists of programs which

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[2 marks]

#### QUESTION TWO

- a) The Operating system (OS) provides hardware independence for application software by

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[4 marks]

b) The operating system Manages processing tasks by

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**[6 marks]**

c) Dynamic file links is a feature in Excel which allow users to

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**[4 marks]**

### QUESTION THREE

a) State two differences between compiled and interpreted programs: **[4 marks]**

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b) Write an algorithm and the equivalent pseudo code to calculate the Volume of a cylinder **[6 marks]**. Note Volume of Cylinder =  $\pi r^2 h$

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- a) Write a simple Pascal programme that adds two numbers entered by the user and display the answer on the screen. **[6 marks]**
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#### **QUESTION FIVE**

- a) State six (6) advantages of non-projected media when used as teaching aid tools  
**[6 marks]**
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- b) Computer Managed Instruction (CMI) involves the use of the computer in
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..... **[4 marks]**

..... All the best .....