# ATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

**FACULTY OF SCIENCE AND TECHNOLOGY EDUCATION**

**COMPUTER APPLICATIONS IN STEM EDUCATION**

**PST1212**

**MAIN Second Semester Examination Paper**

**May 2019**

This examination paper consists of 3 pages

**Time allowed: 3 hours**

**Total Marks: 100**

**Special requirements: NONE**

**Examiner's name: Mrs D. Chasokela**

<u>**INSTRUCTIONS**</u>

1. The paper has 3 printed pages.
2. Each question carries 25 marks.
3. Answer any 4 questions.
4. Start your answer for each question on a fresh page.

<u>**MARK ALLOCATION**</u>

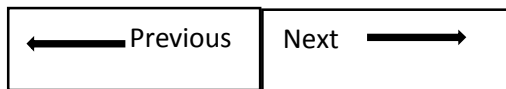| QUESTION | MARKS |
|---|---|
| 1. | **20** |
| 2. | **20** |
| 3 | **20** |
| 4. | **20** |
| 5. | **20** |
| 6. | **20** |
| **TOTAL** | **100** |

**Page 1 of 3**

**QUESTION 1**

(a) Differentiate hardware from software. **[1 marks]**
(b) Explain the 3 units that form a computer system. **[3 marks]**
**(c)** State 3 merits and 3 demerits of computer use. [**6 marks**]
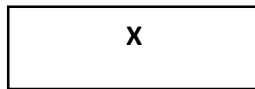(d) What are the 5 unethical computer uses? **[10 marks]**

**QUESTION 2**

(a) State any 3 functions of a mouse. **[4 marks]**
(b) How will you protect documents from being attached by viruses.**[4 marks]**
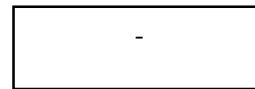(c) Name and state the uses of the following directional tools:
   (i)

   | ← Previous | Next → |
   |---|---|

   (ii)

   | X |
   |---|

   (iii)

   | - |
   |---|

   (iv)

   | Page 1 | Page 2 | Page 3 |
   |---|---|---|

                                                                    **[12 marks]**

**QUESTION 3**

(a) How does one transfer a document from desktop to my documents?
                                                                    **[3 marks]**
(b) Briefly explain how you will create a folder on desktop and labelling it with
    your student number. **[3 marks]**
(c) (i) What does Universal Serial Bus generally refers to? **[3 marks]**
    (ii)     USB ports and cables are used to connect which devices. **[5 marks]**
    (iii)    Which non - traditional computer devices use USBs. **[3 marks]**
(d) How does the monitor, printer and modem assist you when using a computer?
                                                                    **[3 marks]**

**QUESTION 4**

Discuss 10 characteristics for an effective PPT presentation and 5 ways to
implement PPT. **[20 marks]**

**QUESTION 5**

How will you make use of any 5 Microsoft office packages in the teaching and learning? **[25 marks]**