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| INCLUDE THIS COVER PAGE WITH YOUR ASSESSMENT |

**ASSESSMENT 1**

**COMPUTER PRACTICE N5**

|  |  |
| --- | --- |
| Name and Surname |  |
| Student number |  |
| ID number |  |

I hereby declare that the attached assignment/ assessment/ project is my own work, that I have not copied the whole, or any part from any source, whatsoever, and where I have referred to any existing work verbatim or otherwise, I have acknowledged and fully referenced the source that I have utilized. I further understand that if I am suspected of plagiarism or any other form of cheating, disciplinary action will be instituted against me. This in turn will lead to me being expelled from the institution.

|  |  |
| --- | --- |
| Signature |  |
| Date |  |

**CHECKLIST**

|  |  |
| --- | --- |
| I have written neatly and clearly. |  |
| I have numbered all documents and formats accordingly. |  |
| I have made a backup copy of my assessment. |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **MARKERS GRADE AWARDED**  **(%)** | **MARKER'S COMMENTS** | **MODERATORS GRADE AWARDED**  **(%)** | **MODERATOR’S COMMENTS** |
|  |  |  |  |

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| --- | --- |
| **Modules and Learning content covered** | Topic 1 Topic 2  Topic 3 Topic 4  Topic 5 |

Additional instructions

1. The following assessment comprises of small discussion and short answer questions.
2. The assessment will cover theoretical components of Topics 1, 2, 3, 4, and 5.
3. Elementary document formatting and editing is intrinsically required to complete the task.
4. **All answers but be inserted electronically** in the space provided and completed using a Word processing programme.
5. Edit the footer with the necessary details, namely Your Name, Surname, Student number and date of task completion.
6. The format of the footer must be adhered to.
7. Read all questions carefully.
8. All questions must be answered, namely Question 1, 2, 3, 4 and 5.
9. Pay attention to the mark allocations when answering.
10. You may consult your prescribed textbook and other resources.
11. Ensure to use **your own words** and make use of proper referencing (quotation marks, URL listings) when using the work of someone else.
12. Only 10% of directly quoted referenced work will be allowed
13. Marks will be deducted if you are found guilty of plagiarism and excessive ‘copy/paste’ style answering.

**Question 1 – Introduction to the concepts of ICT's, the digital world and digital citizenship.**

Answer the following questions in spaces provided in the ‘***Response***’ table.

|  |  |
| --- | --- |
| Question | Mark |
| 1. Illustrate with a simple diagram a basic information processing cycle and briefly explain each concept / element in the cycle. | 6 |
| 2. Define and discuss (using examples) of typical computer usage from the following user's perspective:  a) Home user,  b) Small office user,  c) power user,  d) enterprise user. | 8  (2\*4) |
| 3. Define the following types of storage hardware and one example each.  a) Electronic,  b) Magnetic,  c) Optical. | 6  (2\*3) |
| 4. Explain the difference between a compressed folder or file and that of a non- compressed folder or file | 3 |
| 5. List three examples of file compression utilities (programmes) and their associated file extensions | 3 |

|  |  |
| --- | --- |
| Response | Mark |
| 1. | 6 |
| 2.  a) Home user,  b) Small office user,  c) power user,  d) enterprise user. | 8  (2\*4) |
| 3. | 6  (2\*3) |
| 4.  a) Electronic,  b) Magnetic,  c) Optical. | 3 |
| 5. | 3 |
| **TOTAL** | **26** |

**Question 2 – Networks and system technologies**

Answer the following questions in spaces provided in the ‘***Response***’ table.

|  |  |
| --- | --- |
| Question | Mark |
| 1. Explain the following networks  a) local area network (LAN)  b) metropolitan area network (MAN)  c) wide area network (WAN) | 6  (2\*3) |
| 2. Define the term network architecture | 3 |
| 3. Define the term e-collaboration | 3 |
| 4. Discuss how e-concepts progress towards overcoming the digital divide within the following sectors:  a) e- government,  b) e-learning / e- education,  c) e-health | 6  (2\*3) |

|  |  |
| --- | --- |
| Response | Mark |
| 1.  a) local area network (LAN)  b) metropolitan area network (MAN)  c) wide area network (WAN) | 6  (2\*3) |
| 2. | 3 |
| 3. | 3 |
| 4.  a) e- government,  b) e-learning / e- education,  c) e-health | 6  (2\*3) |
| **TOTAL** | **18** |

**Question 3 – Computational Thinking**

Answer the following questions in spaces provided in the ‘***Response***’ table.

|  |  |
| --- | --- |
| Question | Mark |
| 1. Differentiate between  a) data and information,  b) knowledge and insight | 4  (2\*2) |
| 2. Differentiate between a widget and a plugin | 4  (2\*2) |

|  |  |
| --- | --- |
| Response | Mark |
| 1.  a) data and information,  b) knowledge and insight | 4  (2\*2) |
| 2. | 4  (2\*2) |
| **TOTAL** | **8** |

**Question 4 – Internet and WWW**

Answer the following questions in spaces provided in the ‘***Response***’ table.

|  |  |
| --- | --- |
| Question | Mark |
| 1. Define the term internet application and list three examples | 5 |
| 2. Describe the term plug-in applications and list three examples | 5 |
| 3. Define the term internet service technologies | 3 |
| 4. Describe the term e-commerce and explain three advantages | 5 |
|  |  |

|  |  |
| --- | --- |
| Response | Mark |
| 1. | 5 |
| 2. | 5 |
| 3. | 3 |
| 4. | 5 |
| **TOTAL** | **18** |

**Question 5 – Digital citizen**

Answer the following questions in spaces provided in the ‘***Response***’ table.

|  |  |
| --- | --- |
| Question | Mark |
| 1. Discuss how the advancement of ICT affects the human race in relation to:  a) global communication  b) Distributed computing power  c) decision making  d) Elections  e) Census | 5 |
| 2. Define the following computer criminals.  a) Hackers,  b) crackers,  c) cyber gangs,  d) virus authors | 8  (2\*4) |
| 3. Discuss three types of cybercrimes | 6  (2\*3) |
| 4. Discuss the concept of social engineering | 3 |
| 5. Discuss the concept of *privacy* with reference to concepts such as  a) spyware,  b) adware | 4  (2\*2) |

|  |  |
| --- | --- |
| Response | Mark |
| 1. | 5 |
| 2.  a) Hackers,  b) crackers,  c) cyber gangs,  d) virus authors | 8  (2\*4) |
| 3. | 6  (2\*3) |
| 4. | 3 |
| 5.  a) spyware,  b) adware | 4  (2\*2) |
| **TOTAL** | **26** |

**Adherence to instructions**

|  |  |
| --- | --- |
| Criteria | Mark |
| Assignment completed electronically in prescribed document | 1 |
| Completed footer details (replaced) | 1 |
| Maintained footer format (L, C, R) | 1 |
| Date format in footer | 1 |
| **TOTAL** | **4** |