**SECTION A [80]**

Open the document **Paper Introductory Section A Theory.docx** and save this document as **SectionA yourexamnumber.docx** (1)

Answer all the questions in this section using the electronic version of the question paper that will also represent your answer sheet.

Print your answers OR save your answers and share the file with, or send the file to the lecturer.

**QUESTION 1 [4]**

Enter the following to this document at the top of the page:

1.1 Add your student number, the date, and your examination number details to the top section of this page. (2)

1.2 Format your examination number only to bold. (1)

**QUESTION 2 [13]**

**Instructions**:

1. Answer the multiple-choice questions: Type or choose the correct answer to the questions below;

"*Click or tap here to enter text"* or "*Choose an item*" in the space provided or choose correct answer from drop-down list.

2. Change the font colour to **red** when you enter the letter or text to complete the answers. Use the *Format Painter* to copy the colour to all answers.

3. Save the answer file as **SectionA yourexamnumber.docx**

**Examples:**

Click Choose an item. or Click or tap here to enter text. for answers to be typed in.

This document was created in MS Word. Click on *Choose an item* and click on your answer.

Answer: *True*

To shut down a computer means: Click on *Click or tap here to enter* text and type the answer.

Answer: *To close all open programs and turn off the computer.*

Indicate whether the following statements are true or false.

2.1 The CPU is basically the same as a disk drive.

**Answer:** Choose an item. (1)

2.2 MS Word is a hardware

**Answer:** Choose an item. (1)

2.3 Twitter is an online social networking and blogging service

**Answer:** Choose an item. (1)

2.4 The random-access memory component only stores information when

the computer is switched on.

**Answer**: Choose an item. (1)

2.5 Open source software works with any operating system and

any hardware platform

**Answer**: Choose an item. (1)

2.6 Bluetooth is an example of personal area network

**Answer:** Choose an item. (1)

2.7 In a computer a Trojan Horse is an anti-virus program

**Answer:**. Choose an item. (1)

2.8 Biometrics is used to measure fingerprints and retina scans for security access. **Answer:** Choose an item. (1)

2.9 ICT refers to all the technologies that allow us to work and interact effectively in the modern world.

**Answer:** Choose an item. (1)

2.10 BIOS stands for Biological Internet Operating system.

**Answer:** Choose an item. (1)

2.11 Does the acronym BYOD stand for bring your own device?

**Answer**: Choose an item. (1)

2.12 Is the following e-mail address valid? jenx [kitty@domain.com](mailto:kitty@domain.com)

**Answer**: Choose an item. (1)

2.13 When we break a problem down into smaller parts to make it easier it is called a pattern.

**Answer:** Choose an item. (1)

**QUESTION 3 [13]**

Various options are given as possible answers to the following questions. Answer your question by selecting the letter from the dropdown list.

3.1 The microprocessor was introduced in

A. first generation computers

B. second generation computers

C third generation computers

D. fourth generation computers

**Answer:** Choose an item. (1)

3.2 Which of the following is not an operating system

A DOS

B Oracle

C Linux

D Windows

E. None of these

**Answer:** Choose an item. (1)

* 1. Following performs modulation/demodulation

A fibre optic

B modem

C. satellite

D. coaxial cable

**Answer:** Choose an item. (1)

3.4 The Boolean operators of the Internet are

A. AND, NOT

B. OR, XOR

C. ADJ, AND

D. All of the above.

**Answer**: Choose an item. (1)

3.5 SLIPstands for?

A. Serial Line Protocol

B. Serial Line Internet Protecting

C. Serial Line Interface Protocol

**Answer:** Choose an item. (1)

3.6 Primary memory is used by the

A. Core Memory

B. I/O devices

C. CPU

D. User

**Answer:** Choose an item. (1)

3.7 What is the difference between mnemonic codes and machine codes?

1. There is no difference
2. Machine codes are in binary, mnemonic codes are in shorthand English

C. Machine codes are in shorthand English, mnemonic codes are in binary

D. Machine codes are in shorthand English, mnemonic codes are a high-level language

**Answer:** Choose an item. (1)

3.8 Programs stored in ROM are called

A. hardware

B. software

C. firmware

D. program

**Answer:** Choose an item. (1)

3.9 Which of the following is NOT a file extension used for graphic files

A. .png

B. .gif

C. .toff

D. .jpeg

**Answer:** Choose an item. (1)

3.10 A 32-bit computer would consist of

A. 4 bytes

B. 8 bytes

C. 16 bytes

D. 32 bytes

**Answer:** Choose an item. (1)

3.11 Ergonomics does not involve ………

**A.** Making sure people are in a comfortable position

**B.** Arranging furniture and equipment

**C.** Reducing strain on the human body

**D.** Adjusting the lighting of an area

**Answer:** Choose an item. (1)

3.12 All networks can be the target of an attack, especially those that connect to the Internet. This is why it is important to understand and implement basic network security. Select an option you will look at to use or do to keep the network secure:

1. firewall
2. antivirus software
3. use passwords and usernames where necessary
4. understanding BYOD environments and applying all relevant safety requirements
5. All the above

**Answer:** Choose an item. (1)

3.13 Which one of the following is the correct data type that can store a single character? This includes letters, numbers, and symbols.

A. Real

B. Character

C. String

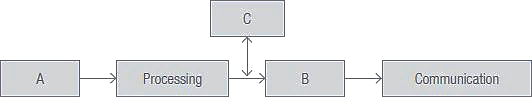
D. Integer

**Answer:** Choose an item. (1)

**QUESTION 4 [29]**

4.1 Answer the following questions by *click or tap.* Type the answer next to the number **Answer**:

Study the diagram below and answer the questions based on the diagram.



Name the missing stages, as indicated by the letters below:

4.1.1 A: **Answer**: Click or tap here to enter text.

4.1.2 B: **Answer:** Click or tap here to enter text. (2)

4.2 Your teacher is busy printing out the term class reports. Which stage is this in the information- processing cycle?

**Answer:** Click or tap here to enter text. (2)

4.3 Choose a concept from COLUMN B that matches a description in COLUMN A. Click or tap and type only the letter in Column A. There can be more than one answer to a question. (6)

|  |  |
| --- | --- |
| **Column A** | **Column B** |
| 1. The structures use to store data Click or tap here to enter text. | 1. Directories 2. Folders   C. Ctrl + X  D. Ctrl + C  E. Recycle bin  F. Extension  G. File path  H. Files and databases |
| 1. To copy a file, use the Click or tap here to enter text. shortcut key on the keyboard |
| 1. Files are stored on a computer inside Click or tap here to enter text. or Click or tap here to enter text. |
| 1. In Microsoft Windows, all deleted files are first moved to the Click or tap here to enter text. |
| 1. The file path always ends with the file Click or tap here to enter text. |
| 1. To move a file, you should use the Click or tap here to enter text. shortcut key on the keyboard |

4.4 The storage devices are listed in Column A. Choose between one of the following data storage methods: Primary, Secondary, Off-line, Tertiary. In Column B click or tap and choose an item next to the storage device. (*Choose an Item*) (7)

|  |  |
| --- | --- |
| **Column A**  **Storage device** | **Column B/**  **Storage method** |
| HDD | Choose an item. |
| RAM | Choose an item. |
| ROM | Choose an item. |
| USB | Choose an item. |
| SSD | Choose an item. |
| DVD-RAM | Choose an item. |
| CLOUD | Choose an item. |

4.5 There are 6 descriptions of a storage device or media in the table below. (6)

Type the answers in the Answer table below the question.

Type the capital letter in **Column B** that goes with the description in **Column A**.

**Example:**

5.1 G.

5.2 K.

|  |  |
| --- | --- |
| **Description** | **Storage device or media** |
| 4.5.1 Non-volatile memory chip, contents of the chip cannot be altered; often used to store the start-up routines in a computer (e.g. the BIOS) | 1. SSD (solid-state drive) |
| 4.5.2 Optical storage media that allows very high storage capacity by using blue/violet lase technology | B ROM |
| 4.5.3 Volatile memory that stores data, programs and the parts of the opening system that are currently in use | C Blue-ray disc |
| 4.5.4 Optical storage media that uses a single spiral track and uses dual layer technology, allowing high data storage capacity | D RAM |
| 4.5.5 Non-volatile memory device that uses NAND flash memories (which consist of millions of transistors wired in series on single circuit boards) | E DVD-RAM |
| 4.5.6 Optical storage media that uses concentric tracks allowing writing and reading to take place at the same time | F DVD-R(+R) |

**Answers:**

|  |  |
| --- | --- |
| 4.5.1 | Choose an item. |
| 4.5.2 | Choose an item. |
| 4.5.3 | Choose an item. |
| 4.5.4 | Choose an item. |
| 4.5.5 | Choose an item. |
| 4.5.6 | Choose an item. |

4.6Complete the table below by indicating in Column B whether the action in Column A is downloading or uploading. Only write Uploading/Downloading next to the number in

Column B. (4)

|  |  |
| --- | --- |
| **Column A** | **Column B Uploading/Downloading** |
| Putting photos on a Facebook wall | 4.6.1 Choose an item. |
| Using a torrent to legally download movies | 4.6.2 Choose an item. |
| Getting music from beemusicplayer | 4.6.3 Choose an item. |
| Getting a PDF document from the Internet | 4.6.4 Choose an item. |

4.7 Write down the missing numbers: (*Answer can be in decimal or binary)*

1 Mb = **Answer**: Click or tap here to enter text..Kb (1)

1 Tb = …**Answer:** Click or tap here to enter text..Mb (1)

**QUESTION 5** **(21)**

Answer the following questions in your own words by clicking the **Text Content Control box** below. ("*Click or tap here to enter text")*

5.1 What is a source code file? Give two examples of a source code file type. (2)

**Answer**:

Click or tap here to enter text.

5.2 Briefly discuss the limitations of fixed Internet access, paying particular attention to the South African context. (2)

**Answer:** Click or tap here to enter text.

5.3 What files can be compressed? (1)

**Answer**:

Click or tap here to enter text.

5.4 Answer the following questions based on the file path below:

C:\My Documents\School\Technology.docx

5.4.1 What is shown in the file path above?

**Answer:** (1)

Click or tap here to enter text.

5.4.2 To what does “C:\” refer?

**Answer:** (1)

Click or tap here to enter text.

5.5 Give four situations where you might encounter computer-based systems in your everyday life

**Answer:**

Click or tap here to enter text. (4)

5.6 Describe in your own what Ergonomics is and how it can improve overall health. (2)

**Answer**:

Click or tap here to enter text.

5.7 Examine the following e-mail carefully and answer the questions that follow: The Homebuyer received the following email with the same address as the Real Estate company.

**From:** ABClittle Co

**Sent:** 14 October 12:15 PM  
**To:** JUnknown12@gmail.com  
**Subject : Deposit required**

Dear Homebuyer

Kindly follow the instructions below and transfer the payment of R200 000.00 due on the house deposit as soon as possible:

Our bank account details are as follows:

ABCIittle Co

Northwest Bank

Account No. 383848484

GREENTOWN

ABCIittle.com

5.7.1 What general name is given to this kind of scam? (1)

**Answer:**

Click or tap here to enter text.

5.7.2 What will happen when you forward the information to the requested email address?

Name three things. (2)

**Answer:**

Click or tap here to enter text.

5.7.3 Motivate why you should check the information on requested payments very carefully. (2)

**Answer:**

Click or tap here to enter text.

**TOTAL SECTION A**

**Section A: Theory Questions 80**