



**HIGHER EDUCATION CERTIFICATE
END OF SEMESTER EXAMINATIONS - APRIL 2025**

PROGRAMME: HEC

YEAR/SEM: YEAR 1/SEMESTER 2

COURSE CODE: FDN 1207

NAME: INTRODUCTION TO INFORMATION TECHNOLOGY

DATE: 2025-04-28

TIME: 2:00-5:00PM

INSTRUCTIONS TO CANDIDATES:

1. Read the instructions very carefully
2. The time allowed for this examination is STRICTLY three hours
3. Read each question carefully before you attempt and allocate your time equally between all the Sections
4. Write clearly and legibly. Illegible handwriting cannot be marked
5. Number the questions you have attempted
6. Use of appropriate workplace examples to illustrate your answers will earn you bonus marks
7. Any examination malpractice detected will lead to automatic disqualification.

DO NOT WRITE ANYTHING ON THE QUESTION PAPER

Section A Write short and precise answers – Answer all Questions

Question 1:

What does URL stand for?. [4 Marks]

Question 2:

Explain briefly four IT Careers you know. [4 Marks]

Question 3:

List the Input Devices of a computer system. [4 Marks]

Question 4:

List any four examples of data processed by a computer. [4 Marks]

Question 5:

Explain the five Information System Components. [4 Marks]

Question 6:

Briefly differentiate between data and information as applied in computing with examples. [4 Marks]

Question 7:

List the Output Devices of a computer system. [4 Marks]

Question 8:

Explain any four types of operating systems you know. [4 Marks]

Question 9:

How do you think AI and automation will influence the future of computer skills? [4 Marks]

Question 10:

What is a Central Processing Unit? [4 Marks]

Section B Long Essay - Answer any 3 Questions

Question 1:

Explain the different steps followed when developing a system. [20 Marks]

Question 2:

Technology has improved education and learning processes.

- a) Explain two ways in which technology can be used to assist the teacher. **[10 Marks]**
- b) Describe an example of how you use technology to assist with your studies. **[10 Marks]**

Question 3:

Explain the purpose of the following devices in a wireless LAN (WLAN):

- a) Switch. **[10 Marks]**
- b) Router. **[10 Marks]**

Question 4:

Explain the following terms:

- a) FTP. **[4 Marks]**
- b) Upload. **[4 Marks]**
- c) Download. **[4 Marks]**
- d) VoIP. **[4 Marks]**
- c) Software. **[4 Marks]**

Question 5:

Information about the planets in the solar system is listed below in the following order:
planet, diameter (km), distance from the Sun (millions of km) and length of year.

Mercury, 4 840, 58, 88 Earth days
Venus, 12 200, 108, 225 Earth days
Earth, 12 800, 150, 365 Earth days
Mars, 6 750, 228, 687 Earth days
Jupiter, 143 000, 778, 12 Earth days
Saturn, 121 000, 1430, 29 Earth days
Uranus, 47 200, 2 870, 84 Earth days
Neptune, 44 600, 4 500, 154 Earth days
Pluto, 6 000, 5 900, 248 Earth days

You are required to do the following:

- a) Create or Draw a table with ten rows and four columns. **[10 Marks]**
- b) Put the information above into the table under the headings in the appropriate columns. **[10 Marks]**

Question 6:

- a) Explain some of the business uses of computers. **[10 Marks]**
- b) Explain the different types of computer networks. **[10 Marks]**