



**Professional Qualification in**  
**COMPUTER ENGINEERING**  
**Level 4 Diploma**

**UNIT 1 – COMPUTER SYSTEMS**

**Question 1**

**Discuss** the range of typical hardware, software and peripheral components that would be required in the computer system of a medium-sized medical centre. (20 marks)

**Question 2**

(a) **Discuss** how the use of interviews and questionnaires enables a designer to identify the needs of their client for a computer system. (10 marks)

(b) **Describe TWO** criteria for designing a new computer system. (10 marks)

**Question 3**

(a) **Explain** how to configure a Basic Input Output System (BIOS). (10 marks)

(b) Using examples, **illustrate** how to troubleshoot BIOS problems. (10 marks)

**Question 4**

(a) **Describe** how to set up and carry out routine maintenance on a computer system. (10 marks)

(b) **Describe** the routine maintenance procedures needed for managing file systems and back-up procedures. (10 marks)

**Question 5**

(a) **Describe** how to install and configure **TWO** new peripherals. (10 marks)

(b) **Explain** why it is important that equipment is kept clean as a part of regular maintenance routines and **describe** how it is done. (10 marks)