NATIONAL OPEN UNIVERSITY OF NIGERIA

University Village, 91 Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja FACULTY OF SCIENCES

COMPUTER SCIENCE DEPARTMENT 2023_2 EXAMINATIONS__

CIT 421: NET-CENTRIC COMPUTING

Credit: 3 units

INSTRUCTION: Answer Four (4) Questions.

Question one is Compulsory

TIME: 3 HRS

Question 1

la. Examine the following technologies:

- Computing technologies (1 mark) i)
- Wireless technologies (1 mark) ii)
- Wireless computing (1 mark) iii)

1b. Why do we need parallel processing systems? (4 marks)

1c. Given a simple sample of use-cases description in figure 1.1. Present this use case in a tabular form. (8 marks)

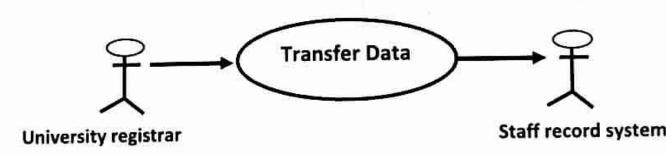


Figure 1.1 Simple Sample of Use-cases

1d. Examine the components of wireless area network (WAN) architecture. (10)

Question 2

- 2a. When was UML diagram model desirable in the development of software? (2 marks)
- 2b. Give and explain ways through which WLAN can be configured. (3 marks)
- 2c. Discuss models which are most commonly used in building parallel computers. (10 marks)