NATIONAL OPEN UNIVERSITY OF NIGERIA
14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS
SCHOOL OF SCIENCE AND TECHNOLOGY
MAY/JUNE 2012 EXAMINATION

CIT 411 MICROCOMPUTERS AND MICROPROCESSORS (2 CR)
TIME: $2^1/_2$ HOURS

INSTRUCTION: ANSWER ANY FOUR QUESTIONS IN ALL

1a.   Discuss microprocessor operations.   *[12 marks]*
1b.   Write note on the uses of a microcomputer.   *[8 marks]*
1c.   Explain Direct Memory Access. *[5 marks]*

2a.   Write short note on technological innovations of microprocessors
        [10 marks]
2b.   Discuss interrupts.   *[7 marks]*
2c.   List and show the hierarchy with a diagram the 4 components of
a computer system.   *[8 marks]*

3a.   Enumerate the types of Microprocessor based on hardware
classification and   application areas classification.   *[10 marks]*
3b.   List and explain formats for specifying operands / ADDRESSING
MODES For 8085.   *[10 marks]*
3c.   What is microcomputer networking?   *[5 marks]*

4a.   Explain any five types of intel microprocessor.   *[10 marks]*
4b.   Give four (4) benefits of Assemble language.   *[8 marks]*
4c.   Write short note on system bus and its types.   *[7 marks]*

5a.   Explain Microprocessor.   *[8 marks]*
5b.   Write short note on memory organization and segmentation.
        [8 marks]
5c.   Computer architecture comprises at least three main
subcategories. Discuss.   *[9 marks]*

6a.   Explain Assembly language.   *[7 marks]*

6b.   Discuss five (5) types of microcomputer networking.   *[10 marks]*

6c.   Give three (3) benefits of Direct Memory Access and list five (5) devices used for DMA.   *[8 marks]*