



NATIONAL OPEN UNIVERSITY OF NIGERIA

SCHOOL OF SCIENCE AND TECHNOLOGY

October, 2013 EXAMINATIONS

Course Code: CIT 411

Course Title: MICROCOMPUTERS AND MICROPROCESSORS

Time: 2 HOURS

INSTRUCTION: Answer any four questions out of six.

1. (a) Explain the term Die.
(b) List and explain four technological innovations of microprocessors.
2. (a) Explain the term Interrupt, listing at least four types of interrupt.
(b) Outline at least five actions taken by the microcontroller when an interrupt is triggered, enumerating at least five registers that the operation is protecting.
3. (a) What are Condition Flags.
(b) Enumerate and explain at least five components of the 8085 microprocessor.
4. (a) Define the following terms: Opcode and Operand. Clearly stating the difference between them.
(b) Write out clearly the following logical operation.
 - i. SET B 2FH
 - ii. CLR C
 - iii. CPL 20H
 - iv. MOV C, 87h
 - v. ANL C, 90h
 - vi. ORL C, 91h
5. (a) With reference to the microcontroller, explain what you understand by the term BUS.
(b) Outline and discuss the four addressing modes available to an 8085 microprocessor.
6. (a) Briefly explain the Von Neumann computer Architecture.
(b) Outline and discuss the various subcategories of a computer architecture.