



NATIONAL OPEN UNIVERSITY OF NIGERIA

University Village, Plot 91, Cadastral Zone,
Nnamdi Azikiwe Expressway, Jabi, Abuja

**FACULTY OF SCIENCES
APRIL, 2019 EXAMINATIONS**

Course Code: CIT411
Course Title: Microcomputers and Microprocessors
Course Credit: Unit: 2
Time Allowed: 2 Hours
Instruction: Answer Question 1 and any other three questions

Question 1

- (a) Outline any four types of interrupts – (6 marks)
- (b) Explain briefly the three types of a typical 80x86 processor - (7.5 marks)
- (c) Outline the actions performed by the microcontroller when an interrupt is triggered? - (5 marks)
- (d) How does Harvard architecture differ from Von Neumann architecture? - (4 marks)
- (e) What is a port? - (2.5 marks)

Question 2

- (a) Write an assembly program code each for an input and output operation - (12 marks)
- (b) In what way is the assembly language beneficial – (3 marks)

Question 3

- (a) Briefly discuss the technological innovations of microprocessors - (8 marks)
- (b) What is co-processor trap? How is co-processor instruction different from CPU instruction? - (5 marks)
- (c) What is a microcomputer? - (2 marks)

Question 4

- (a) Enumerate any five different types of applications for microcontrollers and microprocessors? - (10 marks)
- (b) Enumerate any four benefits of assembly language (5 marks)

Question 5

- (a) From the historical development of the microprocessors, mention the examples of microprocessors from leading corporations. - (3 marks)
- (b) Briefly explain the subcategories of computer architecture. – (9 marks)
- (c) Outline the data manipulation operations of the microprocessor - (3 marks)

Past Question On National Open University Bus 801

JA Banks



Past Question On National Open University Bus 801:

Past Question On National Open University Bus 801 Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Past Question On National Open University Bus 801**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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