



**NATIONAL OPEN UNIVERSITY OF NIGERIA  
PLOT 91, CADASTRAL ZONE, NNAMDI AZIKWE EXPRESS WAY, JABI  
- ABUJA**

**FACULTY OF SCIENCES  
JULY 2017 EXAMINATIONS**

**Course Code: CIT 711**

**Course Title: Computer Fundamentals**

**Credit Unit: 3**

**Time Allowed: 2½ Hours**

**Instruction: Answer Question 1, and any FOUR (4) questions.  
QUESTIONS**

- 1i. Define the term switching, and describe the techniques involved  
**14marks**
- 1ii. Differentiate between Main memory and Auxiliary memory **8marks**
- 2i. State the layers of the OSI model **7marks**
- 2ii. Briefly state the function of any five (5) of the above stated OSI model. **5marks**
- 3i. Enumerate the three categories of display technology. **3marks**
- 3ii. Discuss the following categories of output devices as it relates to printing quality.  

Dot	3marks
Inkjet	3marks
Laser	3marks
- 4i. How does the Input/ Output Module Interface works, and why is it necessary? **9marks**
- 4ii. Explain in simple term cryptanalysis and cryptography **3marks**
5. Write briefly on the following;  
Parallel Interface  
Serial Interface  
**(12marks)**

- 6i. State five (5) elements of a programming language  
**(5marks)**
- 6ii. Flynn classified computers into Four (4) categories, enumerate and explain any three briefly. **(7marks)**