



**FOUNTAIN UNIVERSITY, OSOGBO**  
**COLLEGE OF NATURAL AND APPLIED SCIENCES**  
**DEPARTMENT OF MATHEMATICAL AND COMPUTER SCIENCES**  
**SECOND SEMESTER EXAMINATION 2019/2020 SESSION**  
**COURSE CODE: 106 DATA PROCESSING [2 units]**

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**Instruction: Answer any (4) questions**

**Time Allowed: 2 hrs.**

1. a) Explain clearly the concept of data processing  
b) Discuss clearly the 5 basic activities involved in data processing operation. **[15 marks]**
2. Write short notes on the following
  - a. Batch processing
  - b. Time-sharing
  - c. Online Processing
  - d. Multiprocessing
  - e. Real-time Processing**[15 marks]**
3. Data Processing functions is comprised of the following:
  - i. Validation ii sorting iii summarization iv. Aggregation and v. Analysis
  - a) Explain clearly what each of the functions mean in relation to Data Processing
  - b) Discuss what each of the following devices are used for in a Data Processing Centre
    - i. Printer ii Computer Output on Microfilm (COM) iii. Plotter**[15 marks]**
4. i. What are computer input devices?  
ii Explain the uses of the following input devices in data processing operation
  - a. Keyboard
  - b. Digitizer
  - c. Microphone**[15 marks]**
5. i) Differentiate between the following pairs of data processing files
  - a) Master files and Transaction files
  - b) Audit files and Backup files
  - c) History files and Transition filesii) of what significance is the backup files in Data processing operations **[15 marks]**
6. a) In a typical data processing system, data storage hierarchy include
  - i. Characters ii. Data items/fields iii Records iv. Data files and v. DatabaseExplain clearly what each of these storage hierarchy mean and the relationships among them  
b) In an outline format, briefly but concisely trace the history and evolution of modern day data Processing system. **[15 marks]**