NATIONAL OPEN UNIVERSITY OF NIGERIA
91 CADASTRAL ZONE NNAMDI AZIKWE EXPRESSWAY JABI, ABUJA
Faculty of Science
Department of Computer Science

COURSE CODE: DAM 461   **TIME ALLOWED:** 3Hours

COURSE TITLE: Statistical Database System   **COURSE CREDIT UNIT: 3**

INSTRUCTION: Answer any **five (5)** questions. EACH carries 14marks in total.

Questions

(1a)   There are two approaches to database system, list and briefly discuss respectively. **6marks**

(1b)   Outline with explanation, any four (4) characteristics of the database approach. **8marks**

(2a)   Explain briefly database management system. **6marks**

(2b)   Enumerate eight (8) merits of using database management system. **8marks**

(3a)   List and explain any six (6) components of database environment. **12marks**

(3b)   Define Data model. **2marks**

(4a)   In what situation (s) will a database management system be relatively pointless. **4marks**

(4b)   outline the forms of maximum cardinality which can be met. **4marks**

(4c)   Discuss briefly, the important of statistical database. **6marks**

(5a)   _____ is an intelligent system that transforms raw flight and airport operational data into management information. 2marks

(5b)   Enumerate six (6) benefits of Airport statistical data management system. **6marks**

(5c)   what are the uses of airport statistical DBMS, list any three (3). **6marks**

(6a)   Mention eight (8) flight data available for statistical analysis. **8marks**

(6b)   summarize briefly the three levels of three - schema architecture. **6marks**

(7a)   List and describe the two (2) distinct approaches used for protection of SDB from interference of attack. **6marks**

(7b)   Explain the following concept of public policies on statistical data;

   I.   Confidentiality. **4marks**
  II.   Privacy. **1mark**
 III.   Data Disclosure. **3marks**