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NATIONAL OPEN UNIVERSITY OF NIGERIA University Village, 91 Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja FACULTY OF SCIENCES COMPUTER SCIENCE DEPARTMENT 2020_1 EXAMINATIONS

DAM 461: STATISTICAL DATABASE SYSTEMCredit: 3 unitsTIME ALLOWED: 2½ HoursINSTRUCTION: Answer Question 1 and any other FOUR (4) Questions

- 1a. Enumerate the phases of database design and identity which of the phases are DBMS-independent
 1b. What is the distinction between database schema and database instance?
 1c. Explain the two types of Data Manipulation Language
 1d. Identify any five functions of database system utilities (22 marks)
 2a. Illustrate the three-schema architecture using a well labelled diagram
 2b. What is data independence?
- 2c. List and explain the two types of Data Manipulation Language(12 marks)
- 3a. Database Management System is an important component of the database environment. List the other components of the database environment and identify which of them constitute database's central component.
- 3b. What is the main purpose of database environment?
- 3c. Identify any five functions of database system utilities
- 3d. Outline any four characteristics of client systems
- 4a. Which of the database design phase can be used to communicate with non-technical users and why?
- 4b. Outline when does the three types of data disclosure occurs. (12 marks)
- 5a. Briefly highlight five possible set of operations available on SUBJECT model
- 5b. What is the access control objective forStatistical Database system?
- 5c. What are the two distinct approaches to protection of SDB from inference attacks? (12 marks)
- 6a. What are the conditions for the positivity and negativity of a compromise?
- 6b. Identify three problems associated with query set over control
- 6c. Outline the rules for partitioning the database
- 6d. Outline the implication of using database approach in an organization. (12 marks)

(**12** *marks*)