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

DAM401:   Oracle Database   **Credit Units: 2**

Instruction: *Answer Question (1) (25marks) and any other three questions each carrying 15 marks*

1a)   What do you understand by Database? *(3 marks)*
b)   Enumerate the most basic characteristics of database.   *(2 marks)*
c)   Outline the various steps that must be followed in creating a database in correct order. *(5 marks)*
d)   A RDBMS make use of SQL which is actually a collection of several different languages each designed for a particular purpose. List and write short notes on each of these languages stating at least two statements of each. *(9 marks)*
e)   What is an Object Namespace? List any eight objects that share the same namespace. *(6 marks)*

2a)   Briefly discuss Instance Failure   *(5 marks)*
b)   State the responsibilities of an Oracle Database Administrator. *(6 marks)*
c)   Storage in an Oracle database has two distinct "sides". Name and describe them. *(4 marks)*

3a)   ORDBMS is characterized by a number of additional features. State and write short notes on each of these features. *(6 marks)*
b)   With the aid of illustrative diagram, discuss the architecture of the Oracle Server *(9 marks)*

4a)   Enumerate the key elements that can be discerned in the model of Oracle storage. *(8 marks)*
b)   Write extensively on Datafiles. *(5 marks)*
c)   What do you understand by Operating System Blocks? *(2 marks)*

5a)   What is Block Corruption?   *(3 marks)*
b)   State and write short notes on the types of Block Corruption. (6 **marks)**
c)   Compare between Distributed transactions and Read committed transactions. *(6 marks)*

6a)   Describe Transaction Set Consistent in Oracle Database. *(3 marks)*
b)   Enumerate ways of ensuring maximum recoverability for a database? *(4 marks)*
c)   All schema object names have some certain rules that they must conform to. List these rules. *(5 marks)*
d) Database has a physical structure and a logical structure. State all the files (including the optional files) that make up the physical structure of the Oracle database. *(3 marks)*