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**NATIONAL OPEN UNIVERSITY OF NIGERIA**

**University Village, 91 Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja**

**FACULTY OF SCIENCES**

**APRIL, 2019 EXAMINATIONS**

**COURSE CODE: DAM401**

**COURSE TITLE: Oracle Database**

**CREDIT: 2 Units**

**TIME ALLOWED: 2 Hours**

**INSTRUCTION: Answer Question 1 and any other THREE (3) Questions**

1a) Define Database, hence describe the types of data involved with relevant example *(****3 marks)***

b) State the responsibilities of an Oracle Database Administrator.  ***(6 marks)***

c) What is Operating System Blocks? ***(2 marks)***

d) Enumerate ways of ensuring total recovery from a database failure. ***(4 marks)***

e) Database has both physical structure and logical structure. State all the files (including the optional files) that make up the physical structure of the Oracle database. ***(3 marks)***

f) Write short notes on the types of Block Corruption. ***(3½ marks)***

g) Oracle is installed on all platforms by running the Oracle Universal Installer (OUI). It includes a number of characteristics and features that facilitate a robust installation and configuration set. State the characteristics enjoyed on platforms running the OUI. ***(3½ marks)***

2a) In a tabular form, name the various languages used in RDBMS, their functions and give at least two examples of each ***(6 marks)***

b) **Outline, in correct order, the steps involved in attaching reports with oracle applications?**

 ***(6 marks)***

c) Describe the essential characteristics of a relational model. ***(3 marks)***

3a) Discuss the key elements that can be discerned in the model of Oracle storage. ***(8 marks)***

b) Storage in an Oracle database has two distinct “sides”. Explain them. ***(3 marks)***

c) Give detailed description of Datafiles. ***(4 marks )***

4a) What is an Object Namespace? List any eight objects that share the same namespace.

 ***(6 marks)***

b) 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*.* ***(7½ marks)***

c) **List any three** different types of **report triggers. *(1½ marks)***

5a) State the properties of the following ***(5 marks)***

i) primary key

ii) unique key

iii) foreign key

b) Enumerate four advantages of Oracle**? *(4 Marks)***

c) **Mention four** constraints that are supported by Oracle ***(6 marks)***