

SOUTHWESTERN UNIVERSITY NIGERIA

KM 20, SAGAMU-BENIN EXPRESSWAY, OKUN OWA, IJEBU-ODE, OGUN STATE.

FACULTY OF PURE & APPLIED SCIENCES

DEPARTMENT OF COMPUTER SCIENCE

HND TO BSC CONVERSION PROGRAMME

2018/2019 SECOND SEMESTER EXAMINATION

COURSE CODE: CSC 304 **COURSE TITLE:** Data-base I

INSTRUCTION: Answer question 1 and any other three (3). **TIME:** 2hrs

1. (a) Explain the following:
(i) Database (ii) Information (iii) File system
based (iv) Data Redundancy (v) Data Isolation (vi) access
Concurrency (vii) Data Integrity
(b) What are the properties of a data base
2. (a) What are the characteristics and benefits of a data base.
(b) Explain the term data modelling and list all the types of data modelling
(c) With the aid of the diagram explain the data abstraction layer
3. (a) Explain the following:
(i) Attributes (ii) Domain (iii) Records
(iv) Degree (v) Entity
(b) What are the properties of a table
(c) What are the properties of an entity
(d) Explain the term relationship and list all the types of relationship
4. (a) With the aid of the diagram explain two types of relationships.
(b) Explain the following commands used in data base design
(i) Insertion (ii) Update (iii) Deletion
(v) Relational data base design
(c) Form a database of customers in a bank
5. (a) (i) Explain the term normilization of a data base
(b) Explain the following abbreviations
(i) INF (ii) 2NF (iii) 3NF
(c) With the aid of the diagram explain the best approach for creating tables without anomalies.