Total No. of Printed Pages: 3

SUBJECT CODE NO:- B-2109
FACULTY OF SCIENCE & TECHNOLOGY
B.Sc. S.Y. (Sem-IV)
Examination November/December- 2022
Computer Science CS012
Database Management and System Using SQL

[Time: 1:30 Hours] **[Max. Marks:50]**

"Please check whether you have got the right question paper."

N.B
i) Attempt all questions.
ii) Illustrate your answer with suitable labelled diagram.

Q.1	a)	Explain in detail the abstraction and data integration.	10
	b)	Explain three level of architecture of a DBMS.	10
		OR	
	a)	State and explain components of DBMS.	10
	b)	Explain different data models in DBMS.	10
Q.2	a)	What is difference between select and project operation? Give example.	10
	b)	What is SQL? Write the versions of oracles.	10
		OR	
		Write short notes on (any four)	20

i) Importance of Data model.
ii) Data Manipulation Language (DML)
iii) E-R data model.
iv) Third Normal Form
v) Advantages of DBMS.
vi) Mapping Cardinality

Q.3 Multiple choice questions. 10

01) _____ database level is closest to the users.

a) External
b) Internal
c) physical
d) conceptual

02) In E-R diagram relationship type is represented by _____

a) ellipse
b) dashed ellipse
c) rectangle
d) diamond.

03) A table joined with itself is called _____

a) join
b) self join
c) outer join
d) Equi join

04) A primary key if combined with a foreign key creates _____

a) Parent-child relationship between the tables that connect them.
b) many to many relationship between the tables that connect them.
c) network model between the tables that connect them
d) none of the above.

05) In the architecture of a database system external level is the _____

a) physical level
b) logical level
c) conceptual level
d) view level

06) _____ is record based logical model.

a) network model
b) object oriented model
c) E-R model
d) none of these

07) The full form of DDL is _____

a) Dynamic Data Language.
b) Detailed Data Language
c) Data Definition Language
d) Data Derivation Language.

08) In the relational models, cardinality is termed as _____

a) number of tuples
b) number of attributes
c) number of tables
d) number of constraints

09) A functional dependency is a relationship between or among _____.

a) tables
b) rows
c) relations
d) attributes

10) The operation of eliminating columns in a table done by _____ operation.

a) restrict
b) project
c) union
d) divide