Total No. of Printed Pages:2

## **SUBJECT CODE NO:- 2109** FACULTY OF SCIENCE AND TECHNOLOGY B.Sc. S.Y Sem. IV

## Examination March/April-2022 (To Be Held In June/July-2022) **Computer Science CS012**

## Database Management and System Using SQL

[Time	Cime: 1:53 Hours]				
N.B	Please check whether you have got the right que i) Attempt all questions.	estion paper.	ALABOR.		
	ii) Illustrate your answer with suitable labelled diagr	am.			
Q.1	a) Write any eight applications of DBMS.		10		
<b>Q.</b> 1	b) Define Data and write the advantages and disadvantages OR	of DBMS.	10		
	a) What is meant by $E - R$ model? Explain with example.		10		
	b) Differentiate between first Normal form and Second Normal	mal form.	10		
Q.2	a) What do you mean by cardinality? How it represent map	oing cardinality.	10		
	<ul> <li>b) Define the following operations of relational algebra &amp; g</li> <li>i) The Division operation</li> <li>ii) The natural join operation</li> </ul>		10		
	OR	5,6°			
	Write short note on (any four)		20		
	i) Database schema				
	ii) SQL Plus Worksheet				
	iii) Data models				
	iv) Oracle database structure				
	v) E-R model				
	vi) Second Normal form.				
Q.3	Multiple choice questions		10		
A DO	A Database Management System (DBMS) is				
827	a) Collection of interrelated data.				
0,00	b) Collection of programs to access data				
	c) Collection of data describing one particular enterprise				
	d) All of these				
OP P	2. In an Entity – Relationship Diagram rectangle represents				
13. C.	a) Entity sets b) attributes c) database	d) tables			

3.	<ul> <li>Which of the following</li> <li>a) Entity – Relations</li> <li>b) Relational data medic</li> <li>c) Object – Based data</li> <li>d) All of these</li> </ul>	ship model odel				
4.	Which of the following a) Select b)	• • •	peration? Rename d)Ur	nion		
5.	<ul><li>Who proposed the rel</li><li>a) Bill Gates</li><li>b) E.F. Codd</li><li>c) Herman Hollerith</li><li>d) Charles Babbage</li></ul>					
6.	Which of the following a) Physical level		data abstraction? c) Logical leve	d) View level		
7.	Which of the following a) Table b	ng is the structure ) Schema	of the database? c) Relation	d) none of these		
8.	In relational algebra relations are termed as					
•	O C X V X =	) Attributes	c) tables	d) Rows		
9.	Cartesian product in r a) A unary operator b) A Binary operator c) A Ternary operator d) Not defined					
10	). In an E – R diagram a					
20	a) rectangle l	o) square	c) ellipse	d) triangle		