4.	(a)	What is the significance of Data base Environment Explain with a proper diagram 7+2=9	
	(b)	• • • • • • • • • • • • • • • • • • • •	of 5
<u>UNIT - III</u>			
5.	(a)	Describe the basic structure of Oracle system with propediagram.	
	(b)	What is Normalization? explain the concept of BCNF	ó
6.		h diagrams illustrate different architectures of centralize MS and client-server architecture.	
<u>UNIT - IV</u>			
7.	FD=	en a relation R(A,B,C,D) and functional dependency so ={AB-> CD, B->C}, determine whether the given R is if F? If not convert it into 2NF.	n
8.	(a)	What is Transaction Processing? Explain in details.	7
	(b)	What are desirable properties, schedules and states of transaction?	_
<u>UNIT - V</u>			
9.	Des	scribe what is 3rd NF with help of an example.	ļ
10.	(a)	What are the different types of Failures?	(
	(b)	Explain the various recovery techniques.	}

UG EVEN SEMESTER (CBCS) EXAMINATION, SEPTEMBER - 2021

COMPUTER SCIENCE

4th Semester

COURSE NO. MCSCC - 403 (Data Base Management System)

Full Marks: 70 Pass Marks: 28

Time: 3 hours

The figures in the margin indicate full marks for the questions

(Answer any five questions, taking one from each unit)

UNIT - I

- 1. (a) What are the components of a DBMS
 - (b) With proper examples explain data abstraction and data integration 9
- . Write short notes on:

7+7=14

5

- (i) The Three Schema Architecture (with diagram)
- (ii) Data Independence

UNIT - II

3. Draw E-R diagram of a hospital management system with a special wing for covid treatment facility. 14