Goa Vidyaprasarak Mandal's GOPAL GOVIND POY RAITURCAR COLLEGE OF COMMERCE AND ECONOMICS, PONDA - GOA B.C.A. (SEMESTER- III) EXAMINATION, OCTOBER 2017 DATABASE MANAGEMENT SYSTEM

Duration: 2hrs Marks: 50	
<u>Instruction</u> a)All the questions are compulsory. b) Draw diagram with pencil wherever necessary.	
O1 A) Select the correct option and rewrite the statement:	5*1=5)
Q1.A) Select the correct option and rewrite the statement: (4 i) In the normal form, a composite attribute is converted to	/
individual attributes.	,
a) First b) Second c) Third d) Fourth	
ii) An is a set of entities of the same type that share the same	
properties, or attributes.	
a) attribute Set b) entity Set c) Relation set d) entity Mod	lel
iii) DML means	
a) Data Manipulation Language b) Data Merge Language	
c) Data Merge Link	
iv) A relational database consists of a collection of	
a) Table b) Field c) Records d) Key	
v) Due to loss of Information, Decomposition is called	_
Decomposition	
a) Lossless b) lossy c) less	
	(5*1=5)
1. Define DBMS	
2. What is Normalization?	
3. What is Data marts?	
4. What is an entity?	
5. What is Degree of relation?	
Q2. Answer the Following:	(10)
A) Explain the types of Database users.	(2)
B) Explain the comparison between Logical data independence and Physic	al
data independence.	(3)
C) Explain with proper example conversion of 3NF to BCNF.	(5)
Q3. Answer the following :	(10)
A) Explain Multimedia Database.	(2)
B) Explain ACID Property.	(3)
C) Explain Data Models and compare the different Models.	(5)
Q4. Answer the Following:	(10)
A. List the principle of Security.	(2)
B. Differentiate between OLAP and OLTP	(3)
C. Explain the concept of Distributed Database and Data warehouse.	(5)
Q5. Answer the Following :	(10)
A. Explain Data Mining.	(2)
 B. Explain comparison between entity integrity and Referential integrity. C. Draw ER Diagram for online College admission process and accordingle design tables for the same. Write guery to fatab the data where students 	•
design tables for the same. Write query to fetch the data where students Location is Ponda.	(5)
	(J)