

Goa Vidyaprasarak Mandal's
GOPAL GOVIND POY RAITURCAR COLLEGE OF COMMERCE AND
ECONOMICS, PONDA - GOA
B.C.A. (SEMESTER- III) EXAMINATION, OCTOBER 2018
DATABASE MANAGEMENT SYSTEM

Duration: 2 hrs

Marks: 50

Instruction: a) *All the questions are compulsory*
b) *draw diagram with pencil wherever necessary.*

- Q1.A) Select the correct option and rewrite the statement. (5*1=5)**
- A) Breaking one table into multiple table is called_____
I) Normalization II) Composition III) Denormalization
IV) Decomposition
 - B) The number of column in the table is its_____
I) Degree II) Cardinality III) Relation IV) Tuple
 - C) Every _____ must contain a null or the value of another valid key
I) Key II) Foreign Key III) Primary key IV) Alternate Key
 - D) The principle of _____ ensure that only the sender and the intended recipient have access to the content of the message
I) Confidentiality II) Authentication III) Integrity IV) Access Control
 - E) Data warehouse deals with _____
I) Past Data II) Live Data III) Data of the future IV) None of the above
- Q1.B) Answer the following: (5*1=5)**
- A) Define Dbms
 - B) Define domain
 - C) Define Relational Algebra
 - D) Define Views
 - E) What is Denormalization.
- Q2. Answer the Following:**
- A) Define Data Marts. (2)
 - B) Explain ACID Property. (3)
 - C) Explain with Proper example 3rd Level of Normalization. (5)
- Q3 Answer the following:**
- A) List the Different types of Keys available in SQL and explain any one. (2)
 - B) Draw ERD for College Admission Process. (3)
 - C) Explain with Proper example working of Data Mining. (5)
- Q4. Answer the Following:**
- A) Explain Three Level Architecture. (2)
 - B) Explain Data Models. (3)
 - C) Explain the approaches to Distributed Data. (5)
- Q5. Answer the Following:**
- A) Explain OLAP and OLTP. (2)
 - B) Explain Data Security. (3)
 - C) Explain Data warehouse and Emerging trends in DBMS. (5)

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