



Biyani Institute of Science & management
I Internal Examination 2019-20
Class: MCA-III
Subject- Advanced Database System (MCA-304)



Time: 1½Hrs

Set: A

MM: 20

[I] Answer the following questions in one line only

(2 * 1=2)

1. What are object database systems?
2. What is functional dependency?

[II] Answer the following questions in 50 words

(2*3=6)

1. Define Homogeneous and heterogeneous DDBMS.
2. Explain the concept of fragmentation.

[III] Answer the following questions in 150 words.

(2 * 6=12)

1. Explain Architecture of distributed database with its components.
2. What are the trade offs and benefit of using OODBMS over an ORDBMS? Explain.



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[I] Answer the following questions in one line only

(2 * 1=2)

1. Define the purpose of database normalization.
2. What is nested relations?

[II] Answer the following questions in 50 words

(2*3=6)

1. Explain object – oriented data model.
2. Write the advantages of distributed database in details.

[III] Answer the following questions in 150 words.

(2 * 6=12)

1. List the advantage and disadvantages of object oriented database.
2. What is meant by Concurrency Control in distributed databases? What is its utility?