(b) What is ıgmentation ? Discuss various ectness strategies for fragmenta How can a relation be put bac ogether from various partitioni

7. (a) How se provides transaction services lient ? Illustrate with diagramm l notation.

(b) Discuss rence and component architectu or distributed database. How the ee of local autonomy is defined in e architectures ?

IT-IV

8. (a) Discuss t sign and implementation issues for e database.

(b) How do al databases differ from regular ases ? Discuss the different ries of spatial queries.

9. (a) Discuss architecture for mobile computin ı diagram.

(b) What are different components and constrain ociated with GIS ?

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# 67174

## M.C.A. 4th Sem. (with new notes)
## M.M. 80

## Examination–May, 2017

### ADVANCED DATABASE SYSTEMS (NEW)

**Paper-MCA-404**

***Time : 3 hours*** ***Max. Marks : 80***

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard will be entertained after the examination.

**Note :** Attempt **five** questions in all. Question No. 1 is **compulsory**. In addition to compulsory question, attempt **four** more questions selecting **one** question from each unit. All questions carry equal marks.

1. **Compulsory** Question

(a) How does a category differ from a regular shared subclass ?

(b) Define factory object. How is it used to create individual object ?

(c) How typ ıstructor are defined in ORDBMS

(d) Differenti false positive and false negative.

(e) How C coherency problem is reduced i rquery parallelism ?

(f) What are different types of network transpare Define each of them.

(g) How rule interpreted in deductive database

(h) How tim represented in temporal database compare different time dimensio

## IIT-I

2. (a) Differenti Specialization and Generaliz Why differences of both are not d red in Schema diagram ? Discuss itness and completeness constrain h example.

(b) What are ifferent architectures and storage is related to OODBMS ?

3. (a) How type ructors are used to create complex structure ? Also discuss the sema exist between a complex object anc omponent with example.



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(b) How the concept of inheritance is achieved in EER model ? Discuss the concept in reference of simple and multiple inheritance.

## UNIT-II

4. (a) How inheritance, recursion, constructor functions and multiset aggregation are specified in ORDBMS ?

(b) How the relevance of document can be measured on the basis of given term $t$ ? How is indexing useful in information retrieval ?

5. (a) How query is processed and optimized in ORDBMS ? Give an example also.

(b) How effectiveness of information retrieval is measured ? Discuss the metrics for measuring retrieval effectiveness.

## UNIT-III

6. (a) Differentiate Interquery and Intraquery parallelism ? How processing of query can speed up with intraquery parallelism ?