

M. SC. (Computer Science) SEM – III (Choice Based Credit & Grade System) : SUMMER - 2019

SUBJECT: ELECTIVE: b) ADVANCED DATABASE MANAGEMENT SYSTEMS

Day : Thursday
Date : 02/05/2019

S-2019-1258

Time: 03.00 PM TO 06.00 PM
Max. Marks: 60

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw neat labeled diagrams **WHEREVER** necessary.
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Q.1 Define parallel database. Elaborate the architecture of parallel database system with the help of suitable diagram. (15)

OR

What is meant by multimedia databases? Also explain geographical information systems in detail.

(08)

Q.2 A) Answer any **ONE** of the following:

- i) Discuss various operators in temporal database.
- ii) Explain the concept of Two phase commit with an appropriate example.

B) Answer any **ONE** of the following:

- i) What are different local reliability protocols?
- ii) Write in detail about vertical fragmentation.

(07)

Q.3 Answer any **THREE** of the following:

(15)

- a) State the advantages of OODBMS.
- b) Discuss different types of constructors.
- c) Define - Object structure and Object identify.
- d) Differentiate between Homogenous and Heterogeneous systems.
- e) Explain various reliability measures.

Q.4 Write short notes on any **THREE** of the following:

(15)

- a) Query decomposition
- b) Web databases
- c) Failures in DDBMS
- d) Data localization
- e) Intervals

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