Total Pages-2 PG/IIS/COS-201/16

M.Sc. 2nd Semester Examinations 20160)

ADVANCED DBMS

PAPER – COS-201

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(Turn Over)

Full Marks : 40

Time: 2 hours

Answer any four questions

The figures in the right-hand margin indicate marks

Candidates are required to give their answers in their own words as far as practicable

Illustrate the answers wherever necessary

1. Given a block diagram of physical DBMS architecture and explain its various components. 10

 (a) Write an algorithm of compute the closure of α under functional dependency F. Give example.

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- (b) What is a multivalved dependency? Why is it required? 6+4
- 3. (a) What are the advantages of distributed database system?
 - (b) State the difference between horizontal fragmentation and vertical fragmentation.5 + 5
- 4. Briefly explain two-phase commit protocol in distributed database environment. 10
- 5. (a) What are the different types of update done? Explain.
 - (b) Differentiate between master slave replication and multimaster replication. 6+4
- 6. Write short notes on (any two) :

5 × 2

- (i) Quorum consensus protocol
- (*ii*) Bully Algorithm
- (iii)Deadlock Detection Algorithm.

[Internal Assessment : 10 Marks]

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MV-100