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AI—329—2017

FACULTY OF COMPUTER STUDIES

M.Sc. (First Semester) EXAMINATION

MARCH/APRIL, 2017

(CBCS Pattern)

COMPUTER SCIENCE

Paper (CS-104)

(Distributed Database Concepts)

(Thursday, 27-4-2017)

Time : 10.00 a.m. to 1.00 p.m.

Time— Three Hours

Maximum Marks—75

N.B. :— (i) Q. No. 1 is compulsory.

(ii) Write answer in brief and at the point.

1. Attempt any *three* from the following : 3×5=15

- (a) Explain Distributed system.
- (b) Explain client server Architecture.
- (c) Explain indexing.
- (d) Explain Database System Architecture.
- (e) Explain Data Server.

2. Attempt the following (any *three*) : 3×5=15

- (a) Explain I/O parallelism.
- (b) Explain design of parallel system.
- (c) Explain static hashing.
- (d) Explain inter-operation parallelism.

3. Solve the following (any *three*) : 3×5=15

- (a) Explain B⁺ tree index files.
- (b) Explain distributed database storage.
- (c) Explain fragmentation.
- (d) Discuss heterogenous distributed databases.

P.T.O.

4. Answer the following (any *three*) : 3×5=15
- (a) Explain multimedia databases.
 - (b) Explain OLTP
 - (c) Explain failure classification in recovery system.
 - (d) Explain long duration transaction.
5. Write short notes on (any *three*) : 3×5=15
- (a) Index update
 - (b) Bitmap indices
 - (c) The commit protocol
 - (d) Data Marts
 - (e) Motivation.