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NY—24—2023

FACULTY OF COMPUTER SCIENCE

M.Sc. (Second Year) (Third Semester) EXAMINATION

NOVEMBER/DECEMBER, 2023

(New Course)

COMPUTER SCIENCE

(CS-301)

(Advance Database Administration)

(Tuesday, 5-12-2023)   **Time : 2.00 p.m. to 5.00 p.m.**

Time—3 Hours   *Maximum Marks*—75

N.B. :— (1) *All* questions are compulsory.

       (2) Figures to the right indicate full marks.

       (3) Assume suitable data, if necessary.

1. Describe internal memory structure in detail.   15

                             Or

   (*i*) What is instance ? Explain in detail.   8

   (*ii*) Explain redo log file and control file in detail.   7

2. Explain networks of database and network hosts in detail.   15

                             Or

   (*i*) Explain multiple processors in detail.   8

   (*ii*) Explain parallel query and parallel load options.   7

3. Define the system hardware and mirroring architecture in detail.   15

                             Or

   (*i*) Explain online redo log file and control files with example.   8

   (*ii*) Explain rollback segments in detail.   7

                                               P.T.O.

4. Explain logical and physical backups in detail. 15

Or

(*i*) Explain SQL *Net and Nets in detail. 8

(*ii*) Explain recovery manager and RMAN in detail. 7

5. Solve any *three* of the following : 15

(*a*) OMF

(*b*) Datafiles

(*c*) Indexes and Sequences

(*d*) ARCHIVELOG mode

(*e*) Hash Cluster.