

**M. Sc. Bioinformatics Sem.-I (C.B.C.S.) (2013 Course) / Advanced
Diploma in Bioinformatics Sem.-I (C.B.C.S.) (2013 Course) :
WINTER - 2018**

SUBJECT: BIO-COMPUTING AND DBMS

Day: Saturday
Date: 27/10/2018

W-2018-1253

Time: 10.00 AM TO 01.00 PM
Max Marks: 60

N.B

- 1) **Q.No.1** and **Q.No.5** are **COMPULSORY**. Out of the remaining, attempt any two from each section.
- 2) Answer to both the sections should be written in **SEPARATE** answer books.
- 3) Figures to the **RIGHT** indicate full marks.
- 4) Draw neat labeled diagram **WHENEVER** necessary.

SECTION –I

- Q.1** Write in brief: (10)
- a) Fire wall
 - b) Command line user interface
 - c) DBMS
 - d) Mapping cardinality
 - e) Internet
- Q.2** Answer the following: (10)
- a) Write different commands used for following operation in Unix
i) Rename ii) Format iii) Delete
 - b) Explain pipe and filters in Unix.
- Q.3** Answer the following: (10)
- a) Unix files system in detail.
 - b) Explain E-R diagram in detail.
- Q.4** Write short notes on: (10)
- a) Fundamental of Computer
 - b) OSI model of networking

SECTION II

- Q.5** Write in brief: (10)
- a) Control files
 - b) Metadata
 - c) Data files
 - d) Data Mart
 - e) Redo log
- Q.6** Answer the following: (10)
- a) With neat labeled diagram, explain oracle database architecture.
 - b) Explain Oracle report generation process.
- Q.7** Answer the following: (10)
- a) Describe architecture of data warehouse.
 - b) Write SQL command for data definition and data control statement.
- Q.8** Write short notes on: (10)
- a) Types of constraints
 - b) Oracle memory management

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