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 **W-2018-1253** Time: 10.00 AM TO 01.00 PM
Date: 27/10/2018 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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