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

SUMMER - 2019

SUBJECT: BIO-COMPUTING AND DBMS

Day: Tuesday
Date: 02/04/2019

S-2019-1462

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) Answers should be written in **SAME** answer book.
3) Figures to the **RIGHT** indicate full marks.
4) Draw neat labeled diagram **WHENEVER** necessary.

SECTION- I

Q.1 Write in brief: **(10)**

a) Modem
b) WAN
c) Medline
d) Internet
e) Firewall

Q.2 Answer the following: **(10)**

a) Explain Data models in brief.
b) Explain pipe and filters in Unix.

Q.3 Answer the following: **(10)**

a) Explain 1-1, 1-M and M-M relationship with diagrams.
b) Explain any five Unix commands.

Q.4 Write short notes on: **(10)**

a) Data abstraction
b) E-R diagram

SECTION II

Q.5 Write in brief: **(10)**

a) Hashing
b) Metadata
c) Synonyms
d) Data Mart
e) Segments

Q.6 Answer the following: **(10)**

a) Explain data mining and its applications.
b) What is indexing? Explain its types.

Q.7 Answer the following: **(10)**

a) Explain data manipulation and control statements with example.
b) Write SQL command to update and delete table.

Q.8 Write short notes on: **(10)**

a) Types of constraints
b) Oracle architecture

* * *