

**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. 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) 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

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