M. SC. BIOINFORMATICS SEM.-I (C.B.C.S.) (2013 COURSE) /
ADVANCED DIPLOMA IN BIOINFORMATICS SEM.-I (CBCS)(2013 Course)
WINTER-2017
SUBJECT: BIO-COMPUTING AND DBMS

Day : **Friday** Time: **10.00 AM TO 01.00 PM**

Date : **03/11/2017** Max. Marks. 60

W-2017-1009

N.B.:

1) Q.1 and Q.5 are **COMPULSORY**. Out of the remaining, attempt **ANY TWO** from each sections.
2) All question carries **EQUAL** marks.
3) Answer to both the sections should be solved in **SEPARATE** answer books.

SECTION -I

Q.1 Define: **(10)**

a) Viruses
b) LAN
c) WWW
d) OS
e) MODEM

Q.2 Answer **ANY TWO** of the following: **(10)**

a) Explain data abstraction and its types.
b) Describe in brief E-R models.
c) What do you mean by database designing and data capturing?

Q.3 Write short notes on **ANY TWO** of the following: **(10)**

a) Fundamentals of computing
b) OSI model of networking
c) Instance and Schema

Q.4 Draw and explain the architecture of data mining. Describe indexing and hashing in brief. **(10)**

OR

Draw and explain the architecture of data warehousing. Write a note on constraints.

SECTION- II

Q.5 Define: **(10)**

i) Extent ii) Data segment iii) Data marts
iv) Blocks v) Control files.

Q.6 Write short notes **ANY TWO** of the following: **(10)**

a) Mapping cardinality in DBMS
b) Synonyms
c) Data manipulation statements.

Q.7 Answer in brief **ANY TWO** of the following: **(10)**

a) Write SQL queries for
i) Creating a table ii) Dropping a table
b) What is Meta-data?
c) Discuss the terms used in oracle report generation

Q.8 Write in detail oracle background processes **(10)**

OR

Explain the conception "Oracle Memory Management". What is data replication and optimization?

* * *