AS–1395

B.Sc. Part—I (Semester—II) Examination

BIOINFORMATICS

(Computer Fundamentals and Operating Systems)

Time : Three Hours] [Maximum Marks : 80

N.B. :— (1) Attempt **SEVEN** questions in all.
(2) Assume suitable data if necessary.
(3) Question No. **1** is compulsory and carries **8** marks.

1. (A) Fill in the blanks :

(i) RAM stands for _____.

(ii) WAN stands for _____.

(iii) In Unix directory can be created using _____ command.

(iv) www stands for _____. 2

(B) Choose the correct alternatives :

(i) _____ is not Input device.

(a) Keyboard (b) Scanner

(c) Joystick (d) Speaker

(ii) O.S.I. stands for :

(a) Open System Internet (b) Open System Inference

(c) Open System Interface (d) Open System Interconnection

(iii) _____ is not a protocol :

(a) TCP/IP (b) HTTP

(c) FTP (d) OTP

(iv) The deleted files in windows go to _____.

(a) Desktop (b) Downloads

(c) Recycle Bin (d) My Computer 2

(C) Answer in **one** sentence each :

(i) What is CPU ?

(ii) What is protocol ?

(iii) What is browser ?

(iv) What is topology ? 4

2. (A) Draw block diagram of computer and explain each block. 4

(B) What is Number System ? Write procedure for binary to decimal conversion. 4

(C) Explain :

(i) ASCII

(ii) EBCDIC. 4

OR

(P) What is Memory ? State and explain types of memories. 4

(Q) State and explain characteristics of computer. 4

(R) What is Assembler ? Explain. 4

3. (A) Explain :

(i) Desktop

(ii) Screen saver. 4

(B) What is page setup in MS-WORD ? Explain. 4

(C) What is Mail merge ? Explain. 4

OR

(P) What is Windows Explorer ? Explain. 4

(Q) Explain :

(i) Control Panel

(ii) My Documents. 4

(R) What is Hyper link ? Explain. 4

4. (A) What is an e-mail ? State and explain its working. 6

(B) Write procedure to create charts in MS-Excel. 6

OR

(P) What is an Internet ? State and explain types of Internet Connections. 6

(Q) Explain :

(i) FTP

(ii) HTTP. 6

5. (A) Draw state transition diagram of a process in Unix. Explain each state in brief. 6

(B) How memory management task is achieved in UNIX ? Explain. 6

OR

(P) What is process scheduling ? Explain. 6

(Q) Explain File System in UNIX Operating System. 6

6. (A) Draw Layered Structure of LINUX. 4

(B) State and explain functions of Kernel in LINUX. 4

(C) How security is implemented in LINUX File System ? Explain. 4

OR

(P) What is swapping ? Explain. 4

(Q) How different processes communicate in LINUX ? Explain. 4

(R) What are the design principles of LINUX ? Explain. 4

7. (A) What are the goals of Networking ? Explain. 4

(B) What is Client/Server Architecture ? Explain. 4

(C) What is Star Topology ? Explain. 4

OR

(P) What are Protocols ? Explain. 4

(Q) How networks can be classified ? Explain. 4

(R) What is Bus Topology ? Explain. 4