(P) Explain commands in Unix O.S. :
   (i) cd
   (ii) rmdir
   (iii) mv.   6

(Q) Explain process states and state transition diagram in Unix in detail.   6

6. (A) What do you mean by Inter Process Communication ? Explain.   4

   (B) Explain process management in Linux.   4

   (C) Design principles of Linux.   4

OR

(P) Explain kernel modules in Linux.   4

(Q) Explain scheduling in Linux.   4

(R) Explain the features of Linux O.S.   4

7. (A) What is topology ? Explain star topology.   4

   (B) Explain WAN.   4

   (C) Explain OSI model.   4

OR

(P) Explain client server architecture in detail.   4

(Q) What is the purpose of communication protocols ? Explain.   4

(R) What is the needs and objectives of Networking ?   4

AQ–669

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

2S : BIOINFORMATICS

(Computer Fundamentals and Operating Systems)

Time : Three Hours]   [Maximum Marks : 80

Note :- (1) Attempt **SEVEN** questions in all.

   (2) Assume suitable data if necessary.

   (3) Question No. 1 is compulsory and carries 8 marks.

   (4) Attempt **SIX** questions from rest carrying 12 marks each.

1. (A) Fill in the blanks :
   (i) ASCII stands for _____ .
   (ii) MAN stands for _____ .
   (iii) Multiple computers are connected to a host computer/central Hub, this topology is called _____ .
   (iv) The OSI model consist of _____ layers.   2

   (B) Choose the correct alternatives :
   (i) The printer was _____ device.
      (a) IBM
      (b) Input
      (c) Microsoft
      (d) Output

(ii) Volatile memory is known as :
   (a) EPROM
   (b) ROM
   (c) PROM
   (d) RAM

(iii) HTTP stands for :
   (a) Hyper Text Transmitted Protocol
   (b) Hyper Text Transfer Protocol
   (c) Hyper Text Terminated Protocol
   (d) Hyper Text Transition Protocol

(iv) A computer monitor is joined with :
   (a) Cable
   (b) Bus
   (c) Wire
   (d) Modem   2

(C) Answer in **one** sentence :
   (i) What is Comact Disc ?
   (ii) What is Protocol ?
   (iii) What is Topology ?
   (iv) Define LAN.   4

2. Write on :
   (A) Inkjet Printer   4
   (B) Floppy Disk   4
   (C) ROM.   4
                OR
   (P) Explain the classification of computer   4
   (Q) Explain PROM and EPROM   4

(R) Do as directed :
   (i) $(69)_{10} = (\quad)_2$
   (ii) $(11001001)_2 = (\quad)_{16}$.   4

3. (A) What is Windows Explorer ? Write procedure to view files using Windows Explorer.   4
   (B) Explain page setup in MS-Word.   4
   (C) Explain :
      (i) My Document
      (ii) Control Panel.   4
                OR
   (P) Write features of Windows.   4
   (Q) Explain 'FORMAT' menu used in MS-Word.   4
   (R) Explain relation between directories, files and folders.   4

4. (A) Explain Electronic Mail Address. What are the advantages of e-mail ?   6
   (B) Explain Bar and Pie chart.   6
                OR
   (P) What is Browser ? Explain Netscape Navigator in detail.   6
   (Q) Explain :
      (i) FTP
      (ii) Domain Name.   6

5. (A) Explain process scheduling and memory management in Unix operating system.   6
   (B) Explain structure of Unix operating system.   6
                OR