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

BIOINFORMATICS

(Computer Fundamentals and Operating Systems)

Time : Three Hours]   [Maximum Marks : 80

Note :— All questions are compulsory.

1. (a) Fill in the blanks :

   (i) Primary and _____ are the two types of memory.

   (ii) Windows is an operating system designed by _____.

   (iii) A _____ is he interaction between row and column in a spread sheet in Excel.

   (iv) _____ is the command to change directory in UNIX.   4

   (b) Choose the correct alternatives :

   (i) _____ is the base for the binary number system.

      (a) 10   (b) 16

      (c) 8   (d) 2

   (ii) Which of the following is a model proposed for networking ?

      (a) ISO   (b) OSI

      (c) CSI   (d) NSO

   (iii) _____ is used to search information on web.

      (a) Search engine   (b) Search web

      (c) Search URL   (d) Find engine

   (iv) Which of the following is not a network topology ?

      (a) Star   (b) Bus

      (c) Engine   (d) Tree   4

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

   (i) What is HTTP ?

   (ii) State the types of circulation for a page in MS-WORD.

   (iii) What is a chart ?

   (iv) What is a process ?   4

2. (a) What is a compiler ? How does it differ from interpreter ?   4

   (b) Explain the EBCDIC for representing data.   4

   (c) Describe the working of an inkjet printer.   4

OR

   (p) Explain the various types of memory.   4

   (q) Describe the working of a mouse.   4

   (r) Convert the following decimal numbers to their binary equivalent :

   (i) 23

   (ii) 78   4

(a) What is Recycle Bin ? Explain.   4

(b) Describe the print dialogue box in MS-WORD.   4

(c) What is control panel ? Explain tools in it.   4

OR

(p) Write the procedure to change the background of the Windows Desktop.   4

(q) What is Windows Explorer ? Explain.   4

(r) Explain the text formatting options in MS-WORD.   4

4. (a) List and describe the various mathematical functions in MS-EXCEL.   4

(b) Explain "Autosum" feature in MS-EXCEL.   4

(c) What is TCP/IP ? Explain.   4

OR

(p) Describe the features of a web browser.   4

(q) What are pie charts ? When are they used ?   4

(r) What is e-mail ? Explain.   4

5. (a) Explain the file system in UNIX.   6

(b) Describe the various states in which a process can be at any instance.   6

OR

(p) Describe various data structures used for process management.   6

(q) Describe various commands in UNIX.   6

6. (a) Explain the various features of a Linux Operating System.   6

(b) Describe process scheduling in Linux.   6

OR

(p) Explain the services provided by Kernel.   6

(q) Explain interprocess communication in Linux.   6

7. (a) What is LAN ? How does it differ from a MAN ?   4

(b) Describe the services provided by the network layer of OSI model.   4

(c) What is "client" ? Explain.   4

OR

(p) Describe the "Ring" topology for networking.   4

(q) What are protocols ? State their need.   4

(r) What is a WAN ? Explain.   4