

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 the 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

3. (a) What are icons ? 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