

AP-440

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

1. (A) Fill in the blanks : 2
- (i) CPU stands for _____.
 - (ii) EBCDIC stands for _____.
 - (iii) WWW stands for _____.
 - (iv) Mouse is a _____ device.
- (B) Choose correct alternatives : 2
- (i) RAM stands for :
 - (a) Random Awareness Memory
 - (b) Read Any Memory
 - (c) Read All Memory
 - (d) Random Access Memory

(ii) In which type of LAN topology each node has exactly two connecting nodes ?

- (a) Ring (b) Bus
(c) Mess (d) Star

(iii) Which of the following is operating system ?

- (a) Unix (b) DOS
(c) Both (d) None of these

(iv) MAN refers to :

- (a) Mega Area Network
(b) Metropolitan Area Network
(c) Mini Area Network
(d) Medium Area Network

(C) Answer in **one** sentence : 4

- (i) What is Memory ?
(ii) What is FTP ?
(iii) What is Domain Name ?
(iv) What is Operating System ?

2. (A) What do you mean by impact and non-impact Printer ? Explain any one of them. 4

(B) Explain Block diagram of computer. 4

(C) Explain RAM and ROM. 4

OR

(P) Explain the design principles of Linux O.S. 6

(Q) Explain the process management in Linux O.S. 6

7. Write on :

(A) MAN 4

(B) Tree topology 4

(C) Needs and objectives of Networking. 4

OR

(P) Describe the functions of OSI Model 5

(Q) Star topology 4

(R) Explain LAN. 3

- (P) Explain I/O devices. 4
- (Q) Perform the following :
- (i) $(11100111)_2 = (?)_8$
- (ii) $(73)_8 = (?)_{10}$. 4
- (R) Explain the characteristics of computer. 4
3. (A) Explain the following :
- (i) My computer
- (ii) Hyperlink. 4
- (B) Explain text formatting and spell check. 4
- (C) Explain features of MS-Word. 4

OR

- (P) Write down the procedure to create and delete icon on to the Desktop. 4
- (Q) Write a note on customizing Desktop. 4
- (R) Explain the following :
- (i) Windows Explorer
- (ii) Print Preview. 4
4. (A) Explain the following :
- (i) World Wide Web
- (ii) Internet Explorer. 6
- (B) What is meant by Domain Name ? Explain. 6

OR

(P) Explain the types of Internet connections. 6

(Q) Explain the following :

(i) Search Engines

(ii) Column Chart

(iii) TCP/IP. 6

5. (A) Explain the following :

(i) Memory Management in Unix

(ii) Unix file system. 6

(B) Explain commands in Unix operating system :

(i) pwd

(ii) rm

(iii) mkdir. 6

OR

(P) Explain terminating program and process scheduling in Unix in detail. 6

(Q) Explain advantages of Unix operating system. 6

6. (A) Explain the following in Linux :

(i) Kernel modules

(ii) File system. 4

(B) Explain the different features of Linux O.S. 4

(C) Explain memory management in Linux. 4

OR