Gour Mahavidyalaya

Department of Computer Science and Application
BCA Sem- V
Test Examination- 2020

Full Marks/paper: 10

Answer all the questions.

Optimization Techniques (OT)
Course -51

1. Solve the following L.P.P.   [10]
    Maximize p=5x+4y
    3x+5y<=78
    4x+y<=36
    x,y>=0

Web Technology with JAVA
Course -52

1. What do you mean by HTML? Discuss any 4 HTML basic tags in brief.   [1+4]
2. What is inheritance? Explain with a short example.   [2+3]

UNIX and Shell Programming
Course -53

1. What is a shell in Unix? Discuss any two types of Shells in brief.   [1+2+2].
2. Describe briefly about the use of the following commands with an example.   [5 x 2]
a) cat   b) ls   c) pwd   d) bc   e) echo

Software Engineering
Course -54

1. a) Explain the Iterative Waterfall Model of Software Development with diagram.   [5]
   b) What are the main activities carried out during requirements analysis and specification phase?
                                                                                                            [5]

Laboratory VII (UNIX, Networking)
Course -55

[2 x 5]
1. Write a shell script to implement a basic calculator (addition, subtraction, multiplication, division).
2. Write a shell script to find whether a given number is even or odd.

Laboratory VIII (JAVA and Internet Lab)
Course -56

[2 x 5]
1. Design a webpage to display your Mark sheet. Use table and other tags as required.
2. Write a program to calculate the average of any four numbers using java.