

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 $p=5x+4y$
 $3x+5y \leq 78$
 $4x+y \leq 36$
 $x,y \geq 0$

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.