
'समानो मन्त्रः समितिः समानी'
UNIVERSITY OF NORTH BENGAL
B.Sc. Honours 4th Semester Examination, 2022

## GE2-P2-Computer Science (GE-4AL \& GE-4BL) (Practical)

Time Allotted: 2 Hours
Full Marks: 20
The questions are of equal value.
The figures in the margin indicate full marks.
All symbols are of usual significance.

The question paper contains GE-4AL and GE-4BL. The candidates are required to answer any one from two courses.

Candidates should mention it clearly on the Answer Book.

| GE-4AL |
| :---: |
| Programming In JAVA Practical |
| Program: |
| Viva: |
| Total |

## Answer any one question

1. Write a java program to swap two numbers.
2. Write a program in java to count number of vowels and consonants in a given string.
3. Write a java program to check if a given year is leap year or not.
4. Write a java program to find roots of a quadratic equation.
5. Write a program in java to find factorial of a given number.
6. Write a java program to find GCD and LCM of two numbers.
7. Write a java program to print all prime numbers from 1 to 100 .
8. Write a java program to find sum of $n$ natural numbers using recursion.
9. Write a java program to find transpose of a matrix.

## UG/CBCS/B.Sc./Hons./4th Sem./Computer Science/COMSGE4/Prac./2022

10. Write a java program to concatenate two arrays.
11. Write a java program to display Armstrong numbers between intervals using function.
GE-4BL
Python Programming Practical
Answer any one question
12. Write a python program to find GCD of two numbers. ..... 20
13. Write a python program to check if a string is palindrome or not. ..... 20
14. Write a python program to check whether a given number is Armstrong or not. ..... 20
15. Write a python program to get the largest number from a list. ..... 20
16. Write a python program to convert month name to a number of days. ..... 20
Input: March Output: 31 days
17. Write a python program that accepts a word from the user and reverse it. ..... 20
18. Write a program in python to perform matrix multiplication. ..... 20
19. Write a python program to count the frequency of a letter in a file. ..... 20
20. Write a program to find count of even and odd numbers from a list of numbers. ..... 20
21. Write a program in python to print first $n$ prime numbers. ..... 20
