

**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:	15	
Viva:	5	
Total	20	

#### 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

1.	Write a python program to find GCD of two numbers.	20
2.	Write a python program to check if a string is palindrome or not.	20
3.	Write a python program to check whether a given number is Armstrong or not.	20
4.	Write a python program to get the largest number from a list.	20
5.	Write a python program to convert month name to a number of days.Input: MarchOutput: 31 days	20
6.	Write a python program that accepts a word from the user and reverse it.	20
7.	Write a program in python to perform matrix multiplication.	20
8.	Write a python program to count the frequency of a letter in a file.	20
9.	Write a program to find count of even and odd numbers from a list of numbers.	20
10.	Write a program in python to print first <i>n</i> prime numbers.	20

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