



'সমানো মন্ত্র: সমিতি: সমানী'

UNIVERSITY OF NORTH BENGAL
BCA Honours 3rd Semester Examination, 2022

CC6-BACHELOR OF COMPUTER APPLICATION (32L) (PRACTICAL)
OPERATING SYSTEMS LAB

Time Allotted: 2 Hours

Full Marks: 20

Answer any *one* question on lottery basis

Program : 15

Viva : 05

Total 20

1. Write a shell script to evaluate the following series:

$$S = 1 * 2 \wedge 3 + 2 * 4 \wedge 3 + 3 * 6 \wedge 3 + \dots \text{up to } n \text{ terms.}$$

2. Print the following using a shell script.

```
1
1 2
1 2 3
1 2 3 4
```

3. Write a shell script to find out the factorial of a number.

4. Write a shell script to check whether a given year is leap year or not.

5. Write a shell script to find the Armstrong numbers between 100 & 999.

6. Write a shell script to check whether a number is prime or not.

7. Write a shell script to check whether a string is palindrome or not.

8. Write a shell script to convert a binary number into decimal number.

9. Write a shell script to find the sum of first n even natural numbers.

10. Write a shell script to find out the largest number from a list of numbers.

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