Roll No. ....

D–3291

B. A. (Part III) EXAMINATION, 2020

MATHEMATICS

(Optional)

Paper Third (A)

(Principles of Computer Science)

Time : Three Hours]　　　　　　　[*Maximum Marks : 50*

Note : Attempt *one* part from each Unit. All questions carry equal marks.

Unit—I

1. What is computer peripheral communication ? Explain any *two* input and *two* output devices.

Or

Write short notes on the following :

(i)　Mass storage

(ii)　Binary system

Unit—II

2. What is Operating System ? Explain the architecture of operating system.

Or

Define software engineering and explain its developmental tools and technique.

Unit—III

3. Define algorithm. Write algorithm to check inserted no. is even or odd.

Or

Explain parallel computing and declarative computing.

Unit—IV

4. Explain stack and queues. Describe PUSH and POP operation of stack.

Or

What is file ? Explain sequential and indexed file.

Unit—V

5. Explain computable and non-computable function.

Or

Write short notes on the following :

(i)　Image analysis

(ii)　Artificial Neural Networks

D–3291