

# I-179

**B.Sc. (Part-I) Examination, 2020**

## **COMPUTER SCIENCE**

**Paper - I**

**(Computer Hardware)**

*Time Allowed : Three Hours*

*Maximum Marks : 50*

*Minimum Pass Marks : 17*

**Note :** Attempt all five questions. One question from each unit is compulsory. All questions carry equal marks.

### **Unit - I**

**Q. 1.** Describe block diagram of computer. **10**

**Or**

Describe various types of computer.

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**P.T.O.**

**(2)**

### **Unit - II**

**Q. 2.** Explain the following : **10**

(a) ASCII Code

(b) Excess-3 Code

**Or**

Describe various types of logic gates.

### **Unit - III**

**Q. 3.** Explain the following : **10**

(a) DTL

(b) TTL

**Or**

Explain the following :

(a) K-map

(b) Bipolar Circuits

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**Unit - IV**

**Q. 4.** Describe BCD-to-7 segment coder. **10**

**Or**

Explain the following :

(a) Edge Triggered Flip-flop

(b) Master-Slave Flip-flop

**Unit - V**

**Q. 5.** What is ROM ? Describe various types of  
ROM. **10**

**Or**

Describe shift registers.

