

**GA/47/20**

**Online Assignment, 2020**

**B.Sc. Part -II**

**Information Technology**

**Paper -I**

**(Digital Circuits and Computer Hardware)**

Time : 3 Hours]

[ Max. M. : 50

**Note:-** All Questions are Compulsory. All questions carry equal marks.

1. Explain Fix point and Floating point representation.

Or

Find the complement of the following function :

$$F = x' \cdot y + x \cdot (y' + z).$$

2. Explain BCD adder.

Or

Draw and explain T flip-flop.

3. Define Astable and Bistable multivibrator circuit.

Or

Write short note on RTL, DTL and TTL.

4. Describe instruction formats.

Or

Explain interrupt and their types.

5. Write the difference between primary memory and secondary memory.

Or

Explain Associative Memory.