

**AHO 1134 CV-19**  
**B.Sc. (Part - I)**  
**Ex./Suppl. Last Chance**  
**Term End Examination 2019-20**  
**Computer Science**  
**Paper – I**

**Time : Three Hours]**

**[Maximum Marks : 50]**

**नोट : सभी प्रश्नों के उत्तर दीजिए। सभी प्रश्नों के अंक समान हैं।**  
**Note : Answer All Question. All Question carry equal marks.**

**इकाई / UNIT – 01**

1. (a) What is Operating System? Write features of Windows operating system.  
(b) What is Number System? Explain Binary to Decimal number conversion by taking Suitable example.

**अथवा (or)**

- (a) Write differences between Procedure Oriented and Object Oriented Programming Language.  
(b) Write a brief note on Printer. Explain its types.

**इकाई / UNIT – 02**

2. (a) Why digital Circuit can be represented by Boolean equations? Explain your answer.  
(b) Write a brief note on –
  - (i) ASCII Code
  - (ii) Parity Code

**अथवा (or)**

- (a) Explain NOR and NAND logic gate with their truth table.  
(b) Write a brief note on Positive and Negative logic.

**इकाई / UNIT – 03**

3. (a) Explain and compose characteristics of Integrated circuits logic families.

**अथवा (or)**

- (a) Simplify the Boolean function unry K-map.  
$$F = x^1yz + xy^1z^1 + xyz + xyz^1$$
  
(b) Write a brief note on half-Subtractor.

**इकाई / UNIT – 04**

4. (a) Write a brief note on Decoder.  
(b) Explain RS Flip-Flop. Draw its logic diagram and truth table.

**अथवा (or)**

- (a) Write a brief note on Demultiplexer.  
(b) Briefly explain edge triggered Flip-Flop.

**इकाई / UNIT – 05**

5. (a) Write a brief note on binary Counter.  
(b) What is shift register? Explain its application.

**अथवा (or)**

- (a) What is Computer Memory? Explain its types in details.