Class- B.Sc. 2ⁿᵈ (Regular) Examination 2019-20

INFORMATION TECHNOLOGY

Paper- I

Subject- Digital Circuits & Computer H/W

Time- 3 Hour   Maximum Marks : 50

Attempt all the questions-

Unit- I

Q1. Convert $(111011)_2$ into Gray code.

Or

What is the BCD equivalent of the decimal number 9 ?

Unit- II

Q2. Design full adder circuit using K-Map technique.

Or

Draw a truth table for conversion of BCD data to 7 segment output.

Unit- III

Q3. Draw the excitation table for JK flip-flop,

Or

Design Decimal to BCD encoder and discuss its working.

Unit- IV

Q4. what do you understand by register organization? Explain in detail.

Or

Explain data transfer using DMA

Unit- V

Q5. What is memory hierarchy ? Explain two and three levels of memory hierarchy.

Or

What is virtual memory.