Paper Code – TBC 204 NAME OF SUBJECT TEACHER – Dr. R. K. Bisht

BCA

ONLINE ASSIGNMENT FOR PARTIAL FULLFILMENT OF MID SEM (EVEN SEM) 2020 ASSESSMENT

2nd Semester

Discrete Mathematical Structures and Graph Theory

MAX MARKS: 15

Notes:

1. This online assignment is part of the Mid Sem (Even Sem) 2020 Assessment.

2. Each student is required to submit the assignment through designated online platform.

3. Solve all problems

1. Find the rank of the given matrix by reducing it to normal form.



1. Solve the equations with the help of Cramer’s Rule:







1. Check the consistency of the given system of equations and solve these:







1. Find the Eigen values and verify Cayley Hamilton theorem for the matrix



1. Express the Boolean expression as a sum of minterms and product of maxterms.
2. Implement the Boolean function with (i) NOR gate only (ii) NAND gate only.