B.C.A. DEGREE EXAMINATION,ODD SEMESTER 2020
III Year V Semester
Resource Management Technique

Max.marks :25

Answer any **FIVE** questions $(5 \times 5 = 25)$ Marks

1. List down the applications of OR.
2. Describe North West Corner method.
3. There are 5 jobs J1,J2,J3,4and J5 going through machines A,B.

Job:	J_1	J_2	J_3	J_4	J_5
Machine A:	2	4	5	7	1
Machine B:	3	6	1	4	8

   Determine the minimum elapsed time and idle time for each of the machines.

4. A salesman has to visit five cities A,B,C,D, and E.

Table

		To city				
		A	B	C	D	E
From City	A	-	1	6	8	4
	B	7	-	8	5	6
	C	6	8	-	9	7
	D	8	5	9	-	8
	E	4	6	7	8	-

   If the salesman starts from city A and has to come back to city A. which route should be select so that total distance traveled minimum.

5. Describe about Minimax method.
6. Solve the following game

$$\text{Player A} \begin{bmatrix} 12 & 1 & 30 & -10 \\ 20 & 3 & 10 & 5 \\ -5 & -2 & 25 & 0 \\ 15 & -4 & 10 & 6 \end{bmatrix} \quad \text{Player B}$$

7. Identify the critical path for the following network