

**DEPARTMENT OF MATHEMATICS
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Second Quiz of CS341 Optimization Technique (PE)

Time: 50 minutes

Full Marks: 10

1. What is the significance of vertex/extreme point in the simplex method? [2]
2. Write an algorithm to solve problems on the dynamic programming. [3]
3. Write Kuhn-Tucker conditions and solve the following non-linear programming problem for relative maximum, minimum and saddle point if any for the function .

[1+4]