

B. E. POWER ENGG. 3RD YEAR 2ND SEMESTER EXAMINATION 2023

Optimization Techniques

TIME: THREE HOURS

FULL MARKS:100

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| 1. Describe the conditions for optimality ? | 20 [CO1] |
| 2. Describe linear programming method and quadratic programming method | 20 [CO2] |
| 3. Describe briefly Hopfield neural network. | 20 [CO3] |
| OR | |
| 3. Give a note on gravitational search algorithm. | 20 [CO3] |
| 4. Describe briefly particle swarm optimization technique. | 20 [CO4] |
| OR | |
| 4. Describe briefly cuckoo search algorithm. | 20 [CO4] |
| 5. a) What is Pareto optimal solutions? | 5 [CO5] |
| b) Describe briefly nondominated sorting genetic algorithm-II. | 15 [CO5] |