

Ex/PE/PE/H/T/324B/2022

JADAVPUR UNIVERSITY
Department of Power Engineering

B. Power Engineering, 3rd year, 2nd Semester, 2022

Optimization Techniques

Full Marks: 100

Answer any five questions

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| 1) Give a brief description on multi-layer feed-forward neural networks. | 20 |
| 2) Give a brief description on Hopfield neural network. | 20 |
| 3. a) What is metaheuristic Optimization? | 6 |
| b) Classify different metaheuristic techniques? | 14 |
| 4) Give a brief description on gravitational search algorithm. | 20 |
| 5) Give a brief description on differential evolution. | 20 |
| 6) Give a brief description on particle swarm optimization. | 20 |
| 7) Describe linear programming and quadratic programming techniques. | 20 |
| 8. a) What is multi-objective optimization? | 6 |
| b) Describe nondominated sorting genetic algorithm-II | 14 |