Q1) How to overcome combinational explosion in TSP?

Ans 1) Approximation algorithm: Provide near-optimal solutions quickly.

2) Heuristic methods: Use efficient rules of thumb to find good solution.

3) Problem decomposition: Break TSP into smaller, manageable subproblem.

4) Branch and bounds: Systematically explore search space proving suboptimal branches.

Q2) What is the learning from the salesperson problem?

Ans 1) Algorithm development: TSP encarages creating efficient algorithms for combinatorial optimization problems.

2) Complexity insights: It provides insight into the complexity of optimization problems.