# Algorithm Design and Analysis
## Sample of Exam Test

1. Lower bound for SORT problem complexity. (1.5 points)
2. Find shortest path between vertices v1 and v2 in a given graph applying Floyd-Warshall algorithm. (1 point)
3. Give a theoretical formulation of knapsack problem. (0.5 points)
4. Give a definition of class NP. (0.5 points)
5. What do you know about the complexity of problem HAMILTON ? Does it belong to P? Does it belong to NP? Does it belong to NPC? (0.5 points)