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Name: Jon Section: KEY

MATH 1001, Hamilton Quiz, Spring 2003
There will be little or no partial credit given on questions in this quiz.

1. TRUE or FALSE? (1 point each)

T A Hamilton circuit is a circuit which passes through every vertex exactly once.

F The bad thing about the Brute Force algorithm is that it doesn't always find the optimal Hamilton circuit. (The bad thing is that it takes too long)

T The complete graph on 12 vertices (called K_{12} in the book) has exactly $11! = 39,916,800$ distinct Hamilton circuits. It has $(N-1)!$ Ham. Circuits, and $N=12$.

2. (2 points) Find a Hamilton path from vertex E to vertex A in the following graph. Write your answer as a list of vertices.

Only one possible answer:
E, D, B, C, A

3. (3 points) Use the cheapest link algorithm to find a Hamilton circuit in the following weighted complete graph. Also, what is the weight of the circuit?

1st: choose AB (14)
2nd: choose AC (12)
3rd: can't take AE (Rule 1)
choose BC (14)
4th: can't take BD (Rule 1)
choose BE (16)
5th: Only possible choice is DE (20)

weight: $11 + 12 + 14 + 16 + 20 = 73$
A, C, B, E, D, A or A, D, E, B, C, A

4. (2 points) Use the nearest neighbor algorithm starting at A to find a Hamilton circuit in the same weighted complete graph.

A to D (11)
D to B (15)
B to C (14)
C to E (16)
E to A (13)

[weight: $11 + 15 + 14 + 13 = 72$]

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