1. (1 pt.)

   - This *quick check* is **closed book, notes, etc.**
   - You may use a 3 in. × 5 in. **reference card**, *hand-written by you.*
   - Use the **classroom and textbook conventions** and terminology.

   Read the above carefully; then write your name below:

2. (3 pts.) Define the *set-covering problem.*

3. (3 pts.) Provide the textbook's definition of the *d'th harmonic number H_d.*

4. (3 pts.) Fill in the blanks based on a major result from Section 35.3 of the textbook:
   Greedy-Set-Cover is a polynomial-time _____ approximation algorithm.

1