

ECE 745 - Advanced Communication Theory, Spring 2007
Homework #3

Due: May 18, 2007

1. For each of the networks below, find:

- (a) The maxflow from the source to each of the sinks.
- (b) The multicast capacity w using only flow schemes (and give the scheme that achieves such).
- (c) The multicast capacity w using only flow schemes with possible replication at intermediate nodes (and give the scheme that achieves such).
- (d) The multicast capacity w using network coding (and give the scheme that achieves such).

