1. . 1 kg of cold water at 5ÂºC is added to a container of 5 kg of hot water at 65Âº C. What is the final temperature of the water when it arrives at thermal equilibrium? (A) 10ÂºC (B) 15ÂºC (C) 35ÂºC (D) 55ÂºC (E) 60ÂºC