When 100 g of a liquid A at 100°C is added to 50 g of a liquid B at temperature 75°C, the
temperature of the mixture becomes 90°C. The temperature of the mixture, if 100 g of liquid A
at 100°C is added to 50 g of liquid B at 50°C, will be : (JEE MAIN 2019)
60°C
70°C
85°C
80°C

Let Co and Co be the specific heat capacities of the liquid A and B respectively. By using the principle of ; file - Heat lost by = Heat gained by ?

(calorimetry hot body cold body for an isolated system Case 1: (100) (4 (100-90) = (50)(Cp) (90-75) Case 2:- (100) CA (100-T) = (50) CB (T-50) On dividing (1) by (2)) IT= 80'C