The mean of the data set comprising of 16 observations is 16. If one of the observation valued 16 is deleted and three new observations valued 3, 4 and 5 are added to the data, then the mean of the resultant data, is: **[Main 2015]**

(a) 15.8
(b) 14.0
(c) 16.8
(d) 16.0

(b) Sum of 16 observations $= 16 \times 16 = 256$

Sum of resultant 18 observations

$= 256 - 16 + (3 + 4 + 5) = 252$

Mean of observations $= \dfrac{252}{18} = 14$