

. (c) : Here,  $n(A) = 4$ ,  $n(B) = 4$

Total number of functions from  $A$  to  $B = 4^4 = 256$

Number of one-one functions from  $A$  to  $B = {}^4P_4 = 4! = 24$

Number of many-one functions from  $A$  to  $B = 256 - 24 = 232$

Number of many-one function for which  $1 \notin f(A) = 3^4 = 81$

$\therefore$  Required number of many-one functions

$$= 232 - 81 = 151$$