

LECTURE 9

RELATED PROBLEMS

Q)

1.	Column-I	Column-II
(A) Unit of k is always equals to		(P) 1/time
(B) Unit of k in zero order		(Q) M/time
(C) Unit of k in first order		(R) $\text{Time}^{-1} M^{-1}$
(D) Unit of k in second order		(S) Unit of A (pre-exponential factor)

ANSWER : A->S; B->Q; C->P; D->R;

SOLUTION :

UNIT OF K FOR Nth ORDER REACTION = $(\text{molL}^{-1})^{1-n}$.