



























- (c) Assertion is true but reason is false
- 134)  
(a) First order
- 135)  
(c)  $(1.3 \times 10^{-1} \text{ mol L}^{-1} \text{ s}^{-1})$  and  $(3.25 \times 10^{-2} \text{ mol L}^{-1} \text{ s}^{-1})$
- 136)  
(d)  $3.0 \text{ mol min}^{-1}$
- 137)  
(a)  $k = \left( \frac{2.303}{t} \right) \log \left( \frac{2P_0}{3P_0 - P} \right)$
- 138)  
(b) 30 minutes
- 139)  
(a) I
- 140)  
(b)  $\frac{E_a}{2.303R}$
- 141)  
(b)  $\Delta H = 0$
- 142)  
(c) I, IV
- 143)  
(d) Frequency factor
- 144)  
(b)  $k[A]^{\frac{1}{2}}$
- 145)  
(d) Both molecularity and order of the reaction are one.
- 146)  
(c) It is a sequence of elementary reactions
- 147)  
(a) Threshold energy + Energy of colliding molecules
- 148)  
(a)  $+\frac{1}{2} \frac{-d[NH_3]}{dt}$
- 149)  
(b) Half-life period
- 150)  
(b)  $k_t = 2.303 \log \left[ \frac{A_0}{[A]} \right]$

