



SINCE 1997

THE GATE COACH

Best IES, GATE, PSU coaching institute Since 1997.

REGULAR | WEEKEND | CRASH COURSE | TEST SERIES

Q2 For the question related to PVC, the correct answer should be

⇒ It follows addition kinetics

Q3 For the question where equation of state was $P(V-nb) = nRT$

$$n = 100 \text{ mol}$$

$$b = 0.0029 \frac{\text{m}^3}{\text{mol}}$$

$$R = 8.314$$

$$V = 5 \text{ m}^3$$

$$T = 713 \text{ K}$$

Find the isobaric change of temperature w.r.t volume. {memory based}

$$\left(\frac{dT}{dV}\right)_P = \frac{P}{nR} = \frac{T}{V-nb}$$

$$= \frac{713}{5 - 100 \times 0.0029}$$

$$= \frac{713}{5 - 2.9}$$

$$= \frac{713}{2.1}$$

$$= 339.5 \text{ K}$$



For New Batch Information
 Visit us @ www.thegatecoach.com
www.thegatecoach.co.in
 Like us @ www.facebook.com/THEGATECOACH
 Call us @ +91-9818652587
 9873452122
 9971139774