

THERMODYNAMICS

EXERCISE – I

SINGLE CORRECT (OBJECTIVE QUESTIONS)

Sol.1 [C]

Sol.2 [D]

For 3 moles of Cl_2 & HCl
 $\Delta U = -3 \times 185 = -555 \text{ kJ}$

Sol.3 [D]

2 mole HCl is consumed completely
 for 1 mole consumption of HCl
 $\Delta U = \Delta H - \Delta n_g RT$

$$= -72.3 + \frac{8.314 \times 300}{1000} \quad (\text{as, } \Delta n_g = -1)$$

$$= -69.8 \text{ kJ}$$

For 2 mole HCl

$$\Delta U = 2x - 69.8 = -139.6 \text{ kJ}$$

Sol.4 [B]

$$\Delta U = q + w$$

$$= \frac{100 \times 10^3 - 1.5 \times 10^5}{10^3} = -50 \text{ kJ}$$

Sol.5 [C]

$$w = nC_v \Delta T$$

$$\Rightarrow -3 \times 1000 = 1 \times 20 \times (T - 300)$$

$$T = 150 \text{ K}$$

Sol.6

$$\Delta U = Q + w$$

$$Q = -124 \text{ J}$$

$$W = -P_{\text{ext}}(V_2 - V_1)$$

$$= -\frac{1520}{760} (177 - 377) = 400 \text{ Atm ml} = 40 \text{ J}$$

$$\Delta U = -124 + 40 = -84 \text{ J}$$

Sol.7 [C]

Heat released by 500 gm of liquid

$$= \frac{500}{18} \times 75.6 \times 20$$

Heat absorbed by 'n' no of ice each 9 gm

$$= \frac{9}{12} n \times 6000 \text{ J}$$

Heat absorbed = Heat released

Which gives $n = 14$

Sol.8 [A]

$$\text{Area of } \triangle ABC = -\text{Area of } \triangle ACD$$

Sol.9 [B]

$$C_p = \frac{1}{n} \left(\frac{dq}{dT} \right)_p$$

$$dT = 0$$

Sol.10 [C]

Sol.11 [D]

$$nC_v \Delta T = 100 \times 4.2 - 209$$

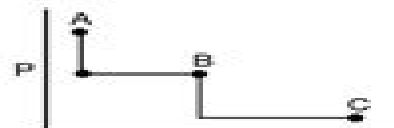
$$= 420 - 209 = 211 \text{ J}$$

$$n \times \frac{5R}{2} \times \Delta T = 211$$

$$n\Delta T = \frac{211 \times 2}{5R}$$

$$C_m = \frac{q}{n\Delta T} = \frac{420}{211 \times 2} \times 5R = 5R$$

Sol.12 [C]



$$\text{Total work done} = -2(16 - 4) - 1(32 - 16)$$

$$= -24 - 16 = -40 \text{ bar litre}$$

$$= -4000 \text{ J}$$

$$q = -w = 4000 \text{ J}$$

Sol.13 [A]

Sol.14 [C]

$$\gamma = \frac{7}{5}$$

$$\gamma - 1 = \frac{2}{5}$$

$$T_2 = T_1 \left(\frac{V_1}{V_2} \right)^{\frac{2}{5}}$$

$$= 600 \times \left(\frac{1}{32} \right)^{2/5} = 150 \text{ K}$$

$$\therefore \Delta H = nC_p (T_2 - T_1) = -\frac{7}{2} R \times 450 = -1575 R$$

Answer Key Thermodynamics Physics

N Noddings



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A. Box, Gail P. Box, 2024-05-02 This compelling textbook provides a broad overview of the science underpinning our understanding of our climate and how it is changing Presented in clear and accessible language and requiring only minimal algebra it enables students to understand how our planet behaves under normal conditions and how human activity has moved us away from that normal It walks the student comprehensively through the basic science including how greenhouse gases absorb radiation and crucially a chapter on aerosols major players in climate change Diverse case studies and examples illuminate the impact and connections to real world events while review questions and exercises consolidate knowledge Including the latest results from the IPCC 6th Assessment Report it concludes by exploring climate modelling equipping students with an understanding of how to simulate both past climate changes and projections of future climate change Online resources include lecture slides solutions and Excel code **150 technical questions and answers for job interview Offshore Drilling Rigs** Petrogav International Oil & Gas Training Center, 2020-06-29 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 150 questions and answers for job interview and as a BONUS web addresses to 309 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry

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