

Model Question paper
Thermodynamics - I 1

11th Standard

Chemistry

Reg.No. :

--	--	--	--	--	--

I. Answer all the questions.

II. Use blue pen only.

Time : 00:45:00 Hrs

Total Marks : 30

Part - A

4 x 1 = 4

- 1) Which of the following is not a state function?
(a) q (b) q+w (c) ΔH (d) $v+pV$
- 2) Which of the following is an extensive property?
(a) volume (b) density (c) refractive index (d) molar volume
- 3) Which of the following is an exothermic reactions?
(a) melting of ice (b) combustion reactions (c) hydrolysis (d) boiling of water
- 4) Which of the following is reversible process?
(a) Diffusion (b) melting (c) Neutralization (d) combustion

Part - B

3 x 2 = 6

- 5) Name the equipment using which heat of combustion of compounds are determined?
- 6) Energy can be created and be destroyed.state whether this is true or false.
- 7) Define zeroth law of thermodynamics.

Part - C

5 x 3 = 15

- 8) Define an adiabatic process
- 9) Write an difference between an exothermic and an endothermic process
- 10) What are intensive and extensive properties?
- 11) Define first law of thermodynamics.
- 12) Explain thermal and mechanical equilibrium processes.

Part - D

1 x 5 = 5

- 13) Describe a bomb calorimeter and explain how heat of formation of an organic compound is determined.
