

SECTION – II

Q-4	Attempt the Following questions	(07)
	a. What is plasma?	02
	b. Give criteria for plasma.	02
	c. Define Plasma instabilities.	02
	d. What is convective derivative?	01
Q-5	Attempt all questions	(14)
	a) Discuss Fluid drift perpendicular to B.	05
	b) Compare whistler and Faraday rotation.	06
	c) Explain plasma parameters.	03
	OR	
Q-5	Attempt all questions	(14)
	a) Explain Fluid equation of Plasma.	05
	b) Compare Phase velocity and Group velocity of Plasma.	06
	c) Compute λ_D and N_D for a gas discharge with $n=10^{16}m^{-3}$ and $KTe = 2ev$.	03
Q-6	Attempt all questions	(14)
	a) Explain Plasma instabilities with its types	07
	b) Explain applications of Plasma.	07
	OR	
Q-6	Attempt all Questions	(14)
	a) Explain Plasma oscillations.	07
	b) Compare Magneto sonic and Alfven waves.	07

