

Chapter 23 – Electromagnetism

Learning Grid

Electromagnetism	Questions	Answers
	Define magnetic field and sketch the magnetic field around a bar magnet.	
	Draw the magnetic field lines around a current-carrying conductor.	
	Explain what a solenoid is and draw the magnetic field around a solenoid.	

Electromagnetism	Questions	Answers
	What are temporary magnets and what is the role of a ferrous core in these magnets?	
	Explain what MCBs are and how they operate.	
	Define magnetic flux density.	
	List four factors that influence the force experienced by a current-carrying conductor in a magnetic field.	
	Sketch how a DC motor operates.	
	What is the function of the commutator split ring in a DC motor?	
	Write the equation for the force exerted by a magnetic field on a moving charge. State the units of each variable.	