Exercise MCQs

Sr. No.	Questions	A	B	C	D
1	Which statement is true about the magnetic poles?	unlike poles repel	like poles attract	magnetic poles do not effect each other	✓a single magnetic pole does not exist
2	What is the direction of the magnetic field lines inside a bar magnet?	from north pole to south pole	✓from south pole to north pole	from side to side	there are no magnetic field lines
3	The presence of a magnetic field can be detected by a	small mass	stationary positive charge	stationary negative charge	✓magnetic compass
4	If the current in a wire which is placed perpendicular to a magnetic field increases, the force on the wire	✓increases	decreases	remains the same	will be zero
5	A D.C motor converts	mechanical energy into electrical energy	mechanical energy into chemical energy	✓electrical energy into mechanical energy	electrical energy into chemical energy
6	Which part of a D.C motor reverses the direction of current through the coil every half-cycle?	the armature	✓the commutator	the brushes	the slip rings
7	The direction of induced e.m.f. in a circuit is in accordance with conservation of	Mass	charge	momentum	✓Energy
8	The step-up transformer	increases the input current	✓increases the input voltage	has more turns in the primary	has less turns in the secondary coil
9	The turn ratios of a transformer is10. It means	$I_s = 10I_p$	$N_s = \frac{N_p}{10}$	✓$N_s = 10N_p$	$V_s = \frac{V_p}{10}$

Additional MCQs

Sr. No.	Questions	A	B	C	D
1	Laws of electromagnetic induction and electrolysis were presented by	Simon ohm	George coulomb	Newton	✓Michael faraday
2	In DC motor, coil can rotate in a magnetic field by an angle of	30°	45°	60°	✓90°
3	Which device is based on the principle of electromagnetism	Mobile phone	T.V	CD,s	✓Electric motor
4	Transformer is used to change the value of	Charge	Energy	Power	✓Voltage
5	Mutual induction works in	Transistor	✓Transformer	DC motor	AC generator
6	Transformer is called step-down when	$V_s > N_s$	✓$V_p > V_s$	$V_s > V_p$	$V_p > N_s$
7	Formula of ideal transformer is	$V_p V_s = I_p I_s$	✓$V_p I_p = V_s I_s$	$V_p I_s = V_s I_p$	None of these
8	A strong __ field lies in Faraday Cage	Gravitational	Electric✓	Magnetic	geometric