Question	Answer	Marks	AO Element	Notes	Guidance
1(a)	any **four** from: needle oscillates (as magnet moves up and down) (1) coil cuts magnetic field / magnetic field changes (as magnet moves) (1) changing (magnetic) field induces voltage / current (1) induced voltage / current opposes the motion / change causing it (1) force, magnetic field and induced current are mutually perpendicular (1)	**4**			
1(b)	larger (maximum) deflection	**1**			
2(a)	Minimum of one arrow, pointing clockwise, on the wire, not contradicted (1) Field direction, motion of wire and induced current are mutually perpendicular OWTTE (1)	**2**			

Question	Answer	Marks	AO Element	Notes	Guidance
2(b)	(as coil rotates) it cuts (magnetic) field between the magnets (1) This induces an e.m.f. / voltage / p.d. (in the coil) (1) This produces a current in the (coil transferred to the) galvanometer (via the slip rings and carbon brushes) (1) Direction of current flow changes with each 180 degree rotation of coil (1)	**4**			
					[Total: 11]