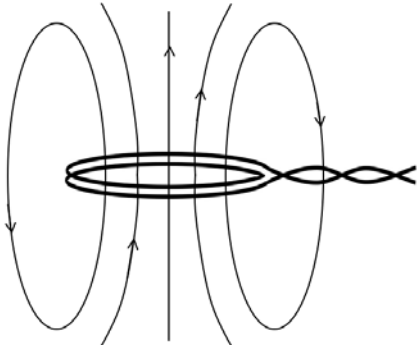


Question number	Answer	Notes	Marks
7 (a)	<p>MP1. at least one straight, vertical central field line;</p> <p>MP2. any field line drawn circling the wire / at least one peripheral field loop;</p> <p>MP3. field directions correct and consistent throughout and shown on at least two lines;</p> 	<p>ignore breaking of field lines as they pass through the centre of the coil by eye</p> <p>condone spiral drawn round wire</p>	3
(b)	<p>any 3 from:</p> <p>MP1. idea of magnetic fields interacting;</p> <p>MP2. idea of (magnetic) attraction or repulsion;</p> <p>MP3. reversing current reverses direction of magnetic field / force;</p> <p>MP4. some comparison with magnets, e.g. like poles repel, unlike poles attract;</p>	<p>allow field lines crossing</p> <p>ignore 'cutting'</p> <p>reject mention of electrostatic force or charge</p> <p>mention of having 'poles'</p>	3

Total 6 marks