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Answer the following questions :-

1 What is meant by magnetic flux? State its SI unit.

2 What is basic cause of induced e. m. f ?

3 A metallic wire of 1m in length is moving normally across a field of 0.1 T with a speed of 5 m/s. Find the emf between the ends of wire?

4 A wire cuts across a flux of 0.002 webber in 0.12 second. What is the emf induced in the wire?

5 What are eddy currents?

6 State the principle of ac generator.

7 What is the frequency direct current?

8 What is the average value of an alternating current over a complete cycle?

9 What is the phase relationship between current and voltage in an inductor?

10 What is the capacitive reactance? Give its SI unit.