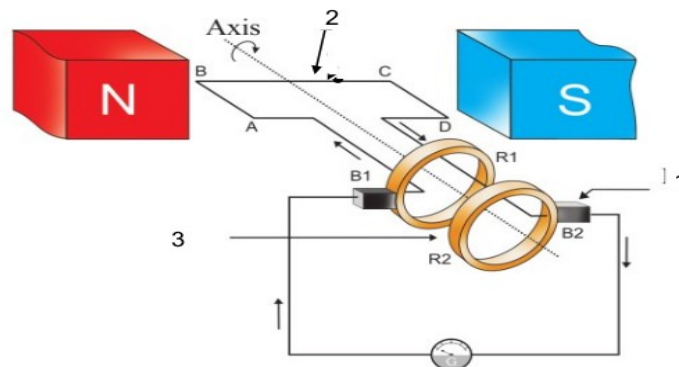


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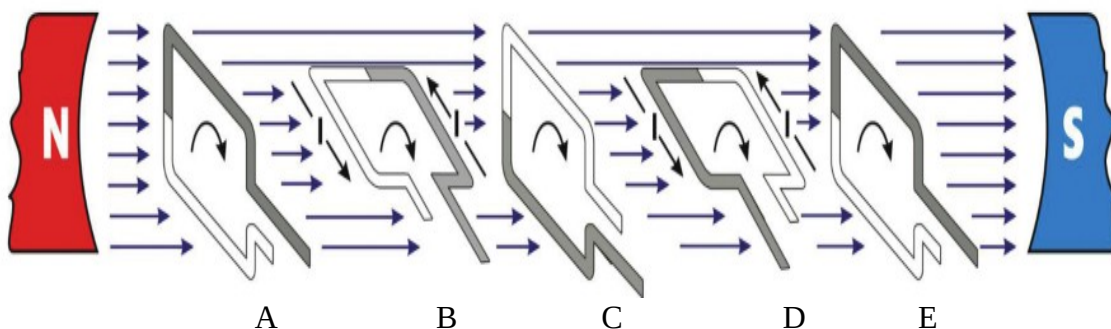
FIRST BELL SUPPORTING MATERIALS -PHYSICS

Chapter-3 Electromagnetic Induction -Generator

1. Which is the device used to generate electricity?
a) generator b) galvanometer c) motor d) ammeter
2. The figure of a generator is given.



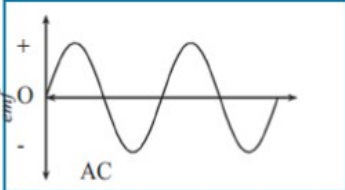
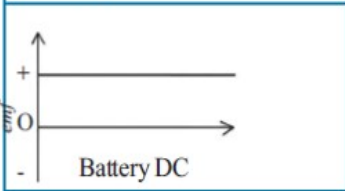
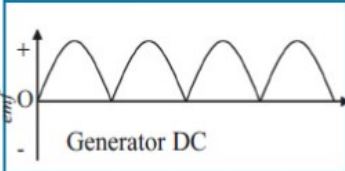
- a. Identify the type of generator.
 - b. Identify the parts labelled as 1, 2 and 3.
 - c. What is the working principle of this device.
3. The various stages of rotation of an armature coil while completing one rotation in a magnetic field are given.



- a. In which instances (fig) maximum emf is generated in the coil
- b. Draw the out put wave form of emf in a generator

4. Graphical representation of emf obtained from an AC generator, a battery & a DC generator are given in the table,

Write down the peculiarities of the emf ?

 <p style="text-align: center;">AC</p>	<ul style="list-style-type: none"> • Direction changes continuously •
 <p style="text-align: center;">Battery DC</p>	<ul style="list-style-type: none"> • •
 <p style="text-align: center;">Generator DC</p>	<ul style="list-style-type: none"> • • emf increases and decreases.

5. When 50 Hz AC is used, how many times will the direction of current change in the circuit?

6. What are the similarities between the DC motor and a DC generator?