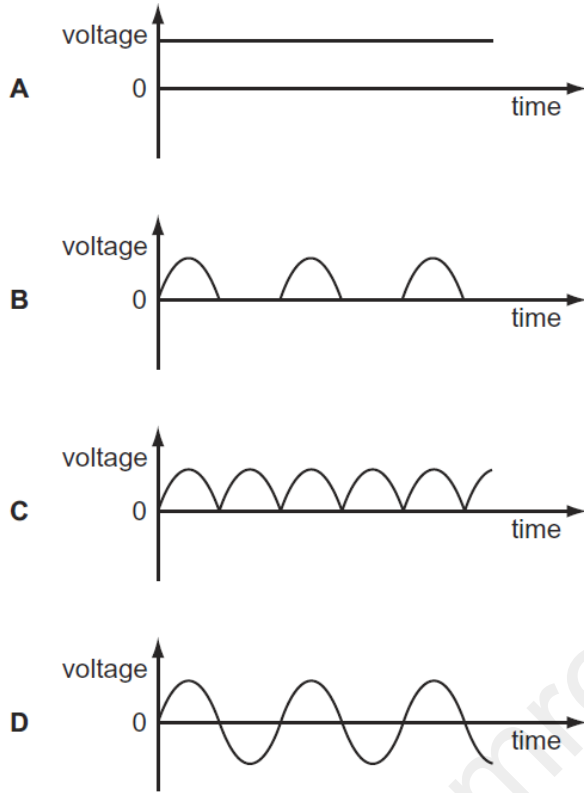


AC GENERATORS-SET-1

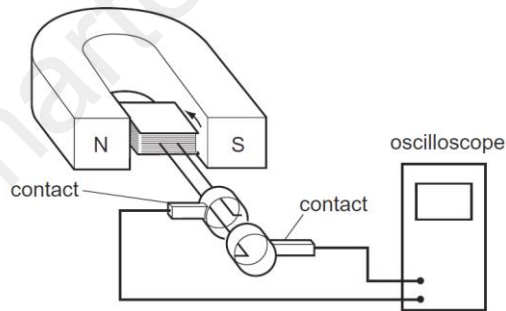
1

Which graph shows the output voltage from a simple a.c. generator?



2

A coil is rotated steadily between the poles of a magnet. The coil is connected to an oscilloscope, which shows a graph of voltage output against time.

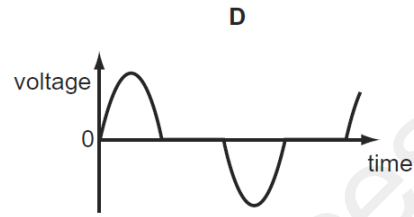
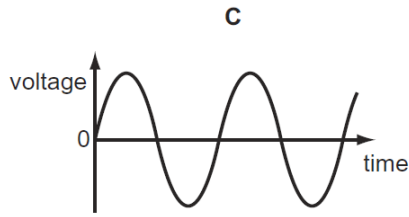
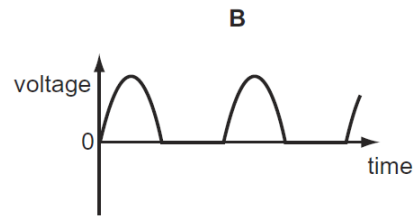
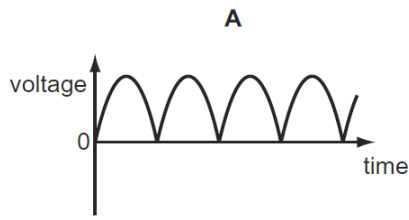


Which graph shows the voltage output against time?



3

Which graph shows how the output voltage varies with time for a simple a.c. generator?



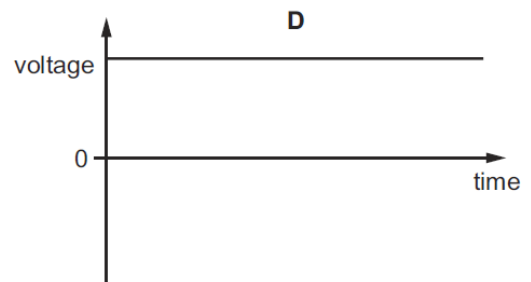
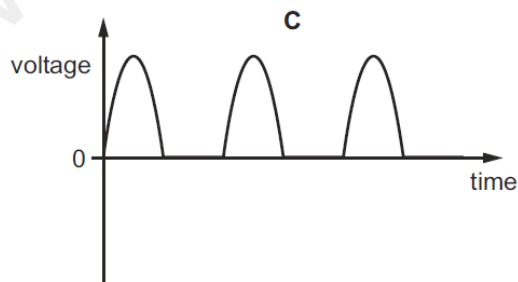
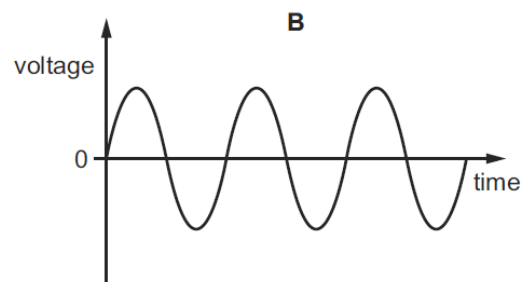
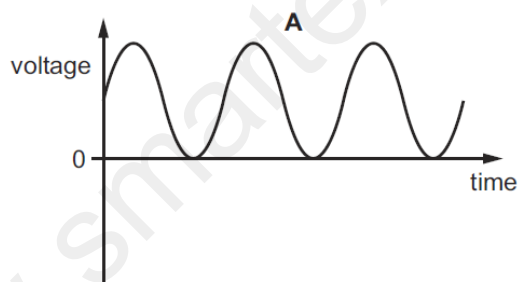
4

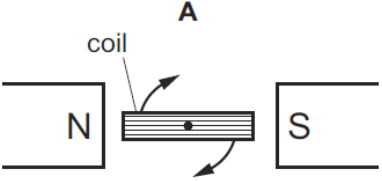
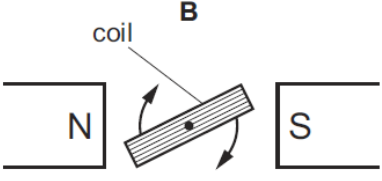
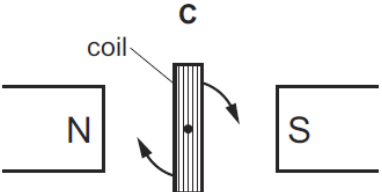
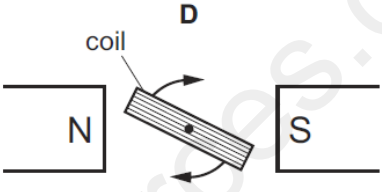
Which device uses slip rings?

- A** a cathode-ray tube
- B** a d.c. motor
- C** an a.c. generator
- D** a solenoid

5

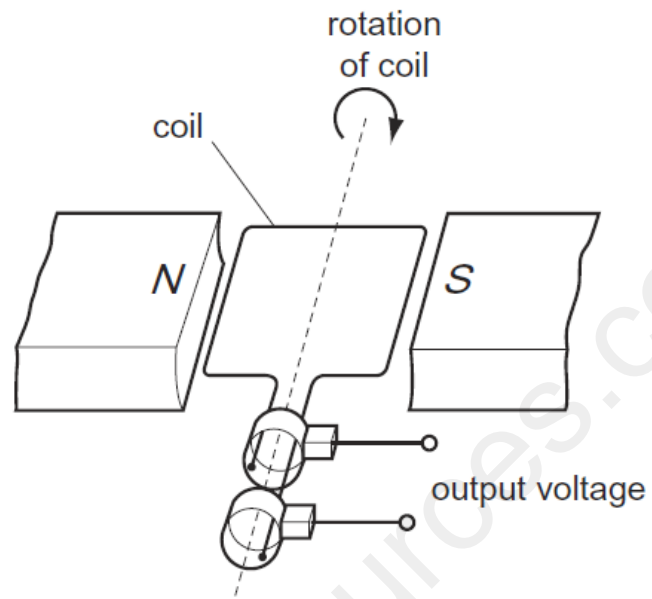
Which diagram represents the voltage output of a simple a.c. generator?



<p>6</p>	<p>In an a.c. generator, a coil is rotated in a magnetic field and an electromotive force (e.m.f.) is induced in the coil.</p> <p>In which position of the coil does the e.m.f. have the largest value?</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>A</p>  </div> <div style="text-align: center;"> <p>B</p>  </div> </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 20px;"> <div style="text-align: center;"> <p>C</p>  </div> <div style="text-align: center;"> <p>D</p>  </div> </div>
<p>7</p>	<p>Which parts of an a.c. generator slide past each other when the generator is working?</p> <ul style="list-style-type: none"> A brushes and coil B coil and magnets C magnets and slip rings D slip rings and brushes

8

The diagram shows an a.c. generator.



With the coil in the position shown, the output voltage is +10V.

When does the output voltage become -10V?

- A** when the coil has turned 90°
- B** when the coil has turned 180°
- C** when the coil has turned 270°
- D** when the coil has turned 360°