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Electromagnetic Effects

Question Paper

Course	CIE IGCSE Physics	
Section 4. Electricity & Magnetism		
Topic Electromagnetic Effects		
Difficulty	Medium	

Time Allowed 10

Score /4

Percentage /100

Question 1

After electricity is generated at a power station, the voltage is increased significantly for transmission across the country via the national grid.

What is the advantage of transmitting electricity at very high voltages?

- **A.** It makes the electricity flow more quickly.
- **B.** It increases the efficiency of the electricity transfer.
- **C.** It produces more power.
- **D.** It is safer to transmit electricity at high voltage.

[1 mark]

Question 2

When a wire is moved through a magnetic field, an e.m.f. is induced in the wire.

Which of the following devices uses this effect?

- A. electric motor
- B. electricity generator
- C. photon accelerator
- **D.** transformer

[1 mark]

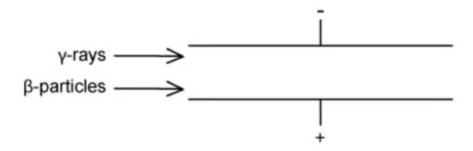


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Question 3

Extended tier only

Beta and gamma radiation are passed through two metal plates, with equal and opposite charges, as shown in the diagram below.



Which direction, if any, would the β -particles and γ -rays be deflected?

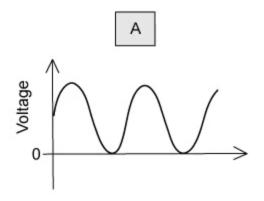
	β-particles	γ-rays
Α	into the page	continue straight
В	towards the negative plate	out of the page
С	continue straight	towards the negative plate
D	towards the positive plate	continue straight

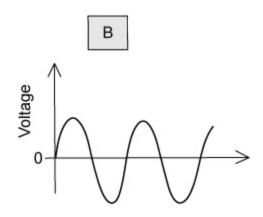
[1 mark]

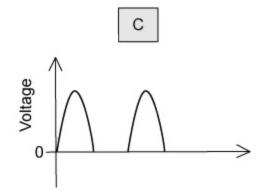
Question 4

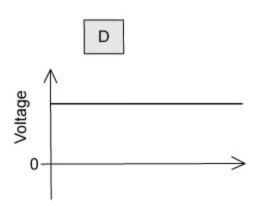
Extended tier only

Which graph represents the output of a simple a.c. generator?









[1 mark]