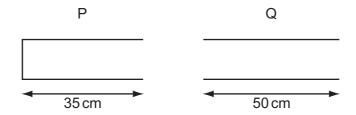
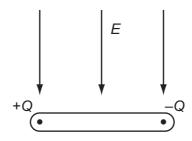
30 Travelling waves of wavelength 20 cm are created in the air columns in a closed pipe P and an open pipe Q. The lengths of the pipes are shown.



In which pipe or pipes are stationary waves formed?

- A P and Q
- **B** P only
- C Q only
- **D** neither P nor Q
- **31** The diagram shows an insulating rod with equal and opposite point charges at each end. An electric field of strength *E* acts on the rod in a downwards direction.



Which row is correct?

	resultant force	resultant torque
Α	zero	clockwise
В	downwards	clockwise
С	zero	anti-clockwise
D	downwards	anti-clockwise

Space for working