

12 Which of the following is an example of resonance?

- A** A car oscillates with a large amplitude after going over a hump.
- B** A string that is fixed on both ends is plucked in the middle and it starts to vibrate.
- C** Increasing the initial displacement of a pendulum such that it oscillates at a larger amplitude.
- D** A child on a swing is given a push whenever he is about to move forward such that the amplitude of the swing increases.

13 A beam of vertically polarised light is incident normally on a polarising filter. The filter is rotated