

# Physics

## Chapter 6 (Electromagnetic Induction)

### Class 12th

### Exercises

**Question 6.1:**

Predict the direction of induced current in the situations described by the following Figures. 6.18(a) to (f).



**Answer 6.1:**

The direction of the induced current in a closed loop is given by Lenz's law. The given pairs of figures show the direction of the induced current when the North pole of a bar magnet is moved towards and away from a closed loop respectively.



Using Lenz's rule, the direction of the induced current in the given situations can be predicted as follows:

- (a) The direction of the induced current is along  $qpq$ .
- (b) The direction of the induced current is along  $pqp$ .
- (c) The direction of the induced current is along  $yxxy$ .
- (d) The direction of the induced current is along  $zyxz$ .
- (e) The direction of the induced current is along  $xyyx$ .
- (f) No current is induced since the field lines are lying in the plane of the closed loop.

# Chapter 6 Physics Answers

**R Pring**



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