

Science Questions Overview

Science Questions have a good weightage in the Banking Exam and the type of question asked in Banking exam is similar to the question mentioned below. It has been solved and explained by Gargi.ai Experts and they have tried to elaborate the concept used in Science Questions.

Question

Which of the following is Fleming's right hand rule?

Difficulty : Moderate

Average Time : 27 Seconds

Options :

1. Induced current is directed in the direction of movement of conductor.
2. Magnetic field is directed in the direction of movement of conductor
3. Magnetic field is directed in the direction of induced current.
4. Movement of conductor, magnetic field and induced current are perpendicular to each other.

Solution

The correct answer is **Option D** i.e **Movement of the conductor, magnetic field and induced current are perpendicular to each other.**

1. Fleming's right-hand rule states to hold the forefinger, middle finger and thumb of right hand mutually perpendicular to each other so that the forefinger points in the direction of the external magnetic field and thumb points in the direction of motion of the conductor.
2. Now the direction in which the middle finger is pointed gives the direction of induced current in the conductor.
3. Fleming's right-hand rule is used to determine the direction of induced current in the conductor when a conductor moves in a region of the magnetic field.