



# PHYSICS

## NCERT - NCERT PHYSICS(TELUGU)

### MAGNETIC EFFECTS OF ELECTRIC CURRENT

#### Example

1. A current through a horizontal power line flows in east to west direction. What is the

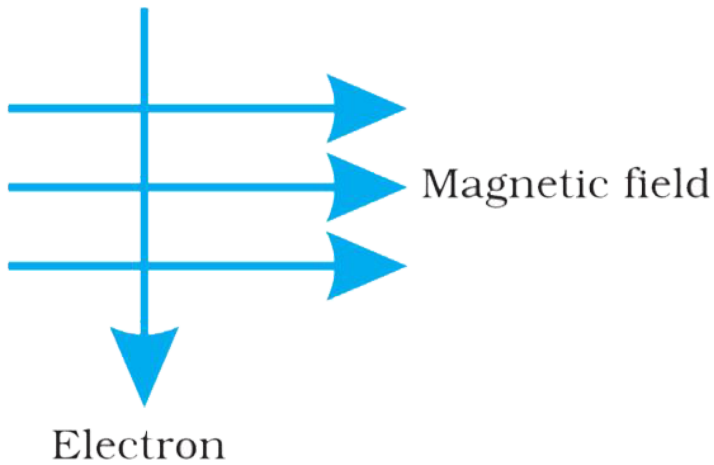
direction of magnetic field at a point directly below it and at a point directly above it?



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2. An electron enters a magnetic field at right angles to it, as shown in Fig. The direction of

force acting on the electron will be



- A. to the right
- B. to the left.
- C. out of the page.
- D. into the page.

**Answer: d**



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## Questions

1. What is the principle of generator?



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## Exercises

1. Which of the following correctly describes the magnetic field near a long straight wire?

A. The field consists of straight lines perpendicular to the wire.

B. The field consists of straight lines parallel to the wire.

C. The field consists of radial lines originating from the wire.

D. The field consists of concentric circles centred on the wire.

**Answer:**



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**2. How does a solenoid behave like a magnet?  
Can you determine the north and south poles  
of a current-carrying solenoid with the help of  
a bar magnet? Explain.**



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3. Imagine that you are sitting in a chamber with your back to one wall. An electron beam, moving horizontally from back wall towards the front wall, is deflected by a strong magnetic field to your right side. What is the direction of magnetic field?



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4. Explain the working of electric motor with a neat diagram.





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5. Explain the working of AC electric generator with a neat diagram.



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