

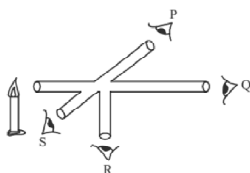
# ASPIRANTS'

## IIT-JEE/NEET FOUNDATION

CLASS: VI	<b>IIT-JEE/NEET</b>	DATE:
MAX. MARKS: 50	<b>MODEL TEST PAPER</b>	TIME: 60 MINUTES

### SECTION-I : (S.C.A.T) - (7 × 3 = 21 M)

- Which of the following are common uses of magnets?  
A) Generating electricity  
B) Magnetic resonance imaging (MRI)  
C) Storing data in computer hard drives  
D) All of the above
- A device used for measuring potential difference between two points in a circuit is called \_\_\_\_.  
A) Galvanometer      B) Inductor  
C) Ammeter          D) Voltmeter
- Which of the following is not the name of a physical quantity?  
A) Time                  B) Speed  
C) Force                D) Kilogram
- Look at the following setup. Four students P, Q, R and S want to see the flame of the candle through pipes. Identify which student can see the flame through the pipe?



- A) P      B) Q      C) R      D) S
- A microscope is based on the principle of :  
A) Mechanics          B) Optics  
C) Magnetism  
D) Electromagnetic waves
  - Electrons are  
A) Negatively charged particles  
B) Positively charged particles  
C) Neutral particles  
D) Both (A) & (B)
  - Science which deals with the study of composition of matter is called :  
A) Physics              B) Chemistry  
C) Biology              D) Geography

### SECTION-II : (M.C.A.T) - (3 × 4 = 12 M)

- Which of the factors effects the resistance of the wire?

- A) Length of the wire  
B) Cross sectional area of the wire  
C) Temperature of the wire  
D) Colour of the wire

- Which of the following are derived quantities?

- A) Area                      B) Velocity  
C) Force                    D) Mass

- Which of the following statements are false?

- A) We can develop our five senses by training and practice.  
B) A person good in memorising can be a good physicist.  
C) Nuclear radiations are highly dangerous to living beings.  
D) A hypothesis is worked out by studying the reference material.

### SECTION-III : (C.T) - (3 × 3 = 9 M)

**Luminous objects give off their own light, such as the sun and stars. Fireflies and glow-worms are luminous. Non-luminous objects do not give off light or glow.**

- Sun is a

- A) Non-luminous object  
B) Luminous object  
C) Transparent object  
D) Opaque object

- Fireflies is

- A) Aglowing worms      B) Non-luminous  
C) Both (A) & (B)      D) Neither (A) nor (B)

- Non-luminous objects

- A) Have their own light  
B) Are visible when they reflect the light fall on them from luminous object  
C) Do not give own light  
D) Both (B) and (C)

### SECTION-IV : (M.M.T) - (4 × 2 = 8 M)

#### Column - I

- Radiotherapy
- Lightning
- Satellite
- Limited energy resource

#### Column - II

- A) Natural phenomenon  
B) Treatment of cancer  
C) Detecting Fractures  
D) Weather Forecasting  
E) Fossil fuels