	Selvam College Of Technology, Namakkal (Autonomous) **IT Support & Development Training Programme (ISDTP)**	

Worksheet - 9 (Magnetism)			
Bundle & Subject Name	Proficient Bundle V2 (2025) - Competitive Exams Training (SC)-(L-2)	**Semester**	VI

Answer Key (10*1=10)

1. Which of the following iron ores has the highest iron content?

   A) Hematite B) Magnetite

   C) Siderite D) Pyrrhotite

   Ans: B) Magnetite

2. What is the magnitude of the magnetic field at the center of a bar magnet?

   A) Maximum B) Zero

   C) Equal D) Cannot be determined

   Ans: B) Zero

3. What is Fleming's Left-Hand Rule used for?

   A) To determine the direction of the magnetic field

   B) To determine the direction of force on a current-carrying conductor

   C) To determine the direction of the induced current

   D) To determine the magnitude of the electric current

   Ans: B) To determine the direction of force on a current-carrying conductor

4. What is the unit of measure of a magnetic field? (SSC CGL 2019)

   A) Tesla B) Hertz

   C) Intensity D) Joule

   Ans: A) Tesla

5. Modern electrical generator works on _______ principle. (NTPC 2021)

   A) Magnetic Induction B) Electromagnetic induction

   C) Electrical Induction D) Electrical Energy

   Ans: B) Electromagnetic Induction

6. What is the main advantage of Maglev trains over traditional trains?

   A) Lower electricity consumption

   B) Lower ticket prices

   C) Reduced friction, allowing for higher speeds

   D) Ability to carry more passengers

   Ans: C) Reduced friction, allowing for higher speeds

7. The direction of a magnetic field be determined by using _______.

   A) Ammeter B) Temperature

   C) Voltmeter D) Compass

   Ans: D) Compass

8. Inside the bar magnet, magnetic field lines moves in the direction of ____.

   A) North to South B) South to North

   C) Away from North pole D) Away from South pole

   Ans: B) South to North

9. The force experienced by a moving charge in a magnetic field is called _______.

   A) Gravitational force B) Electrostatic force

   C) Magnetic Lorentz force D) Centripetal force

   Ans: C) Magnetic Lorentz force

10. According to Fleming's Right-Hand Rule, which fingers represent the magnetic field, current, and motion? (NDA 2022)

    A) Thumb: Current, Index finger: Magnetic field, Middle finger: Motion

    B) Thumb: Motion, Index finger: Magnetic field, Middle finger: Current

    C) Thumb: Magnetic field, Index finger: Current, Middle finger: Motion

    D) Thumb: Motion, Index finger: Current, Middle finger: Magnetic field

    Ans: B) Thumb: Motion, Index finger: Magnetic field, Middle finger: Current