

Institute of Biomedical Technology

Electromagnetism

Class Test-I

MCOs: Attempt All

1. Magnetite which is abundant the rock-type mineral is _____
 - a) Bloodstone
 - b) Lodestone
 - c) Iodstone
 - d) Gemstone
2. In Magnetostatics the charges are _____.
 - a) Motion
 - b) Time-Varying Motion
 - c) Steady Motion
 - d) Rest
3. The creation of electric dipoles by this separation of charge is called _____.
 - a) Repolarization
 - b) Induced Repolarization
 - c) Polarization
 - d) Induced Polarization
4. Field B is strong where lines are _____ and weak where lines are _____.
 - a) Dense, Sparse
 - b) Sparse, Dense
 - c) Dense, Dense
 - d) Sparse, Sparse
5. A magnetic field line can never _____ another field line
 - a) Cross
 - b) Combine
 - c) Connect
 - d) Collect
6. The length of a vector _____ on its direction.
 - a) Depend
 - b) Not Depend
 - c) Equal
 - d) Not Equal
7. The sensitivity distribution in the detection of bioelectric signals is called _____.
 - a) Biomagnetism
 - b) Bioelectromagnetism
 - c) Maxwell Equation
 - d) Reciprocity Principle
8. The _____ electrical field intensity the _____ field.
 - a) Greater, Stronger
 - b) Greater, Weaker
 - c) Lesser, Stronger
 - d) Lesser, Weaker

9. The rapid development of electronic instrumentation and computer science, diagnostic instruments, which are based on _____.
- Biophysical
 - Bioelectrical
 - Biochemical
 - Biomechanical
10. In coulombs law if we doubling both charge the force is _____.
- Double
 - Triple
 - Quadruple
 - Quintuple
11. In Coulomb's Law, if we double the distance the force is _____.
- $\frac{1}{2}$
 - $\frac{1}{4}$
 - $\frac{1}{6}$
 - $\frac{1}{8}$
12. When the electric field is radially toward a point charge than it is _____
- Zero
 - Positive
 - Negative
 - Not equal to Zero
13. The electric field lines follow the direction of the _____.
- Force
 - Charge
 - Energy
 - Field
14. William Gilbert, first proposed in 1600 that the _____ itself is a magnet
- Human Body
 - Magnet
 - Moon
 - Earth

Short Essays: Attempt All

- What is Electromagnetism and Bioelectromagnetism?
- What is Inverse Square Law?
- How we make the strong Electromagnet?
- What is Electric Field and Electric Field Intensity?
- What is Coulomb's Law?

****Best of Luck****