

Study Guide: Exam 2 – Ch 18, 19 & 20

By the end of Unit 2 you should be able to solve conceptual and calculation problems based on the following concepts. The list includes the PowerPoint lecture number and the learning objective (LO) covered in that lecture. You should aim to solve at least two problems from each item in the list below. The more variations of the problem you can find, the better you will be prepared for the exam.

Ch 19: Magnetism

□ Sec 19.1 – Magnets

- (Lec 12; LO19 1a) Identify sources of magnets and magnetic forces.

□ Sec 19.2 – Earth's Magnetic Field

- (Lec 12; LO19 2a) Identify the magnetic poles of Earth.

□ Sec 19.3 – Magnetic Fields

- (Lec 12; LO19 3a) Calculate magnetic force and magnetic field of a moving charge.
- (Lec 12; LO19 3b) Use right hand rule to find direction of magnetic force on a moving charge.
- (Lec 12; LO19 3c) Figure out the direction of an external electric field by following the motion of a charged particle using electric and magnetic force concepts.

□ Sec 19.4 – Motion of a Charged Particle in a Magnetic Field

- (Lec 12; LO19 4a) Calculate the radius of circular path (cyclotron equation) of a charge moving perpendicular to the magnetic field.
- (Lec 12; LO19 4b) Predict the path of a charged particle in an external magnetic field when the direction of the velocity is arbitrary compared to the magnetic field.

□ Sec 19.5 –Magnetic Force on a Current – Carrying Conductor

- (Lec 13; LO19 5a) Calculate magnitude and direction of force on a current carrying wire in an external magnetic field.
- (Lec 13; LO19 5b) Use right hand rule to find direction of magnetic force on a current carrying wire in an external magnetic field.

□ Sec 19.6 – Magnetic Torque

- (Lec 14; LO19 6a) Calculate magnetic torque on a loop of wire carrying current.

□ Sec 19.7 – Ampere's Law

- (Lec 14; LO19 7a) Calculate magnitude of the magnetic field generated by a straight wire carrying current.
- (Lec 14; LO19 7b) Use right hand rule to figure out the direction of magnetic field generated by a current carrying wire.

□ Sec 19.8 – Magnetic Force Between Two Parallel Conductors

- (Lec 14; LO19 8a) Calculate magnitude and direction of magnetic force between the parallel current carrying wires.

□ Sec 19.9 – Magnetic Fields of Current Loops and Solenoids

- (Lec 14; LO19 9a) Calculate the magnetic field generated by a current carrying loop of wire with (1) a single turn and (2) several turns.
- (Lec 14; LO19 9b) Calculate the magnetic field generated by a solenoid.

Ch 19 Study Guide Answers Physics

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