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Engineering Physics-II Important 10 Mark questions

<u>Unit I</u>

- 1. Derive an expression for the pressure of a gas on the basis of kinetic theory of gases.
- 2. Explain the three modes of heat transfer.
- 3. Write the properties of thermal radiation.

<u>Unit II</u>

- 1. Explain the working of Carnot's reversible engine with indicator diagram and write its efficiency.
- 2. Write a note on solar energy.
- 3. Explain the liquefaction of oxygen by cascade process.

<u>Unit III</u>

- 1. Describe the construction and working of ruby laser.
- 2. Explain the working of RADAR with block diagram.
- 3. Describe the components of remote sensing.

<u>Unit IV</u>

- 1. Derive an expression for torque experienced by a rectangular current carrying coil, placed in a uniform magnetic field.
- 2. Describe an experiment to determine the electro chemical equivalent of copper by using copper voltameter.
- 3. Describe an experiment to determine the specific heat capacity of a liquid using joule's calorimeter.

<u>Unit V</u>

- 1. Describe the energy band diagrams of conductors, insulators and semiconductors.
- 2. Explain the working of PN-junction diode.
- 3. Explain the working of NPN transistor as an amplifier in common emitter configuration.