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Strength of Materials

Important 10mark questions

Unit I

- 1. Explain the operation of cupola furnace with a simple cross-section view.
- 2. What are the essential conditions for equilibrium of rigid body?

Unit II

- 1. With a neat sketch, describe the electron beam welding process. List out the advantages of this process.
- 2. List and explain the various mechanical properties of materials.

Unit III

- 1. Explain about hydraulic process with a neat sketch.
- 2. Explain shearing operations.

Unit IV

- 1. With a neat sketch, explain the principal parts of capstan lathe.
- 2. Draw the SFD and BMD for a simply supported beam subjected to a point load 'W' at its midpoint.

Unit V

- 1. Draw a neat sketch of an upright drilling machine, indicate important features and explain its working.
- 2. With neat sketches, explain the various types of springs.