





(e) What is the difference between production and productivity?

(f) What is the purpose of Core in casting?

(g) Differentiate between up milling and down milling.

(h) Differentiate between Drilling, Reaming, and Boring?

(i) What is the principle of Resistance Welding?

(j) Give names of different types of plant layout.

### Section-B

Attempt **any five** questions from this section. (10×5=50)

2. Discuss in detail stress-strain diagram for ductile and brittle materials.

3. What are the types and desirable properties of moulding sand? Discuss different type of casting defects its remedies.

4. Discuss the difference between hot working and cold working processes. With appropriate diagrams explain basic Rolling and Forging processes.

5. Draw the neat sketch of shaper and specify its different parts. How it differs from Planer machine.

6. Explain with neat sketch, the working principle of Extrusion. Describe indirect extrusion and hydrostatic extrusion. State their applications.

7. Explain Gas Welding Process? What are the types of flames used in Gas Welding? Explain Soldering and Brazing.

8. Classify different welding processes. Explain Metal Arc welding in detail with a neat sketch.

9. What are the objectives of plant layout? Write advantages and disadvantages of each plant layout.