

Unit -V

Multiple Choice Questions (MCQs)

1. Extrusion is a process in which metal is forced through a:
 - a) Roller
 - b) Die
 - c) Mould
 - d) Hammer
2. In hot extrusion, metal is deformed:
 - a) Below recrystallization temperature
 - b) Above recrystallization temperature
 - c) At room temperature
 - d) At freezing temperature
3. In cold extrusion, the process is carried out:
 - a) Above recrystallization temperature
 - b) Below recrystallization temperature
 - c) At melting point
 - d) At high pressure only
4. In forward extrusion, the metal flows:
 - a) Opposite to ram direction
 - b) Same as ram direction
 - c) Perpendicular to ram
 - d) Random direction
5. Backward extrusion is also known as:
 - a) Direct extrusion
 - b) Indirect extrusion
 - c) Impact extrusion
 - d) Hydrostatic extrusion
6. Hydrostatic extrusion uses:
 - a) Solid pressure
 - b) Fluid pressure
 - c) Mechanical force
 - d) Hammer force
7. The main advantage of extrusion is:
 - a) Limited shapes
 - b) Complex cross-sections
 - c) Low strength
 - d) High wastage
8. Forging is a process of shaping metal by:
 - a) Cutting
 - b) Applying compressive forces
 - c) Melting
 - d) Casting

9. Smith forging is also called:
 - a) Machine forging
 - b) Hand forging
 - c) Drop forging
 - d) Roll forging
10. Drop forging uses:
 - a) Continuous pressure
 - b) Sudden impact
 - c) Fluid pressure
 - d) Magnetic force
11. Roll forging is used for:
 - a) Flat sheets
 - b) Reducing cross-section using rolls
 - c) Joining metals
 - d) Cutting sheets
12. Rotary forging is also known as:
 - a) Radial forging
 - b) Impact forging
 - c) Hand forging
 - d) Die casting
13. Explosive forming uses:
 - a) Electric arc
 - b) Chemical explosive energy
 - c) Mechanical pressure
 - d) Magnetic field
14. Electro-magnetic forming works on:
 - a) Chemical energy
 - b) Magnetic forces
 - c) Heat energy
 - d) Friction
15. Rubber pad forming uses:
 - a) Metal die only
 - b) Rubber as flexible medium
 - c) Gas pressure
 - d) Explosive force

◆ Fill in the Blanks

1. Extrusion forces metal through a _____.
2. Hot extrusion is performed above _____ temperature.
3. In forward extrusion, metal flows in the _____ direction of ram.
4. Backward extrusion is also called _____ extrusion.
5. Hydrostatic extrusion uses _____ pressure.
6. Forging involves _____ forces.

7. Smith forging is a type of _____ forging.
8. Drop forging uses _____ force.
9. Explosive forming uses _____ energy.
10. Electro-magnetic forming uses _____ forces.