



PART B — (5 × 13 = 65 marks)

11. (a) Enumerate about carbon-di-oxide (CO<sub>2</sub>) moulding. (13)

Or

- (b) Sketch a common Hot chamber die casting machine. Explain with its applications. (13)

12. (a) Explain the neat sketch the working principles of Gas Metal Arc Welding. (13)

Or

- (b) Explain principle and two types of friction welding process. (13)

13. (a) Elucidate about the types of rolling stand arrangement. (13)

Or

- (b) Explain about the preparation requirement before wire drawing process. (13)

14. (a) Explain the principle of magnetic pulse forming with its advantages and limitations. (13)

Or

- (b) Explain with neat sketch hydro forming. Mention its advantages and Limitations. (13)

15. (a) How is a plastic component manufactured in compression moulding. (13)

Or

- (b) Explain procedure and guidelines for making a solvent bonding of plastics. (13)

PART C — (1 × 15 = 15 marks)

16. (a) Explain with necessary sketches applications of following sheet metal forming operations: Shaving, Slitting, Notching.

Or

- (b) Explain the requirements for the Pattern Material. Discuss the suitability of following materials: Wood, Aluminium, Rubber, brass and White metal.