



12. (a) Explain the principle and equipment of Gas tungsten arc welding process with neat sketches. (13)

Or

- (b) (i) Sketch and name the various component of the Thermit welding process. (8)  
(ii) Explain any two important defects in welding process. (5)
13. (a) Sketch and explain the various types of Rolling mill arrangements used in a Rolling process. (13)

Or

- (b) Sketch and explain the differences between impression die forging and precision forging (near net shape forging) operation. (13)
14. (a) With neat sketches explain the Sequence of the Stretch forming process. (13)

Or

- (b) With a neat sketch explain the Explosive forming process. (13)
15. (a) Explain the Rotational molding process used in manufacturing plastics, with a neat sketch. (13)

Or

- (b) Explain the Compression molding process with a neat sketch. (13)

PART C — (1 × 15 = 15 marks)

16. (a) Explain the design considerations to be followed when designing a part for the casting process.

Or

- (b) Sketch and explain the sequence of steps in manufacturing a connecting rod using the forging process.