

- b) (i) Give details about the heat treatment of super alloys. (8)
- (ii) What are the effects of adding the following elements on steel alloy? (6)
Carbon, manganese, sulfur, silicon, Phosphorus, nickel.

23. a) Describe the ablation process. Mention some of the ablative materials with applications in aerospace

(OR)

- b) (i) Briefly explain the working phenomenon of superconductivity. (7)
- (ii) Differentiate the types of super conductors with examples (7)

24. a) (i) What is the need of seasoning of wood? Explain the types of seasoning. (7)

(ii) Explain any four types of glues used in aircraft construction. (7)

(OR)

- b) (i) Explain plywood and its types (8)
- (ii) Brief some of the commonly used dopes in aircraft with their properties (6)

25. a) Give the details of process for corrosion protection of metals.

(OR)

b) Write a short notes of the following

- a) Creep mechanism (5)
- b) Fracture mechanism (5)
- c) Fatigue mechanism (4)
