



12. (a) Explain in detail about Bauehinger's effect.

Or

(b) Explain the flaw detection in materials and aircraft components.

13. (a) Explain stress corrosion cracking.

Or

(b) Describe the effect of alloying treatment.

14. (a) Explain about the production of semi fabricated forms.

Or

(b) Explain the special requirements of shape memory alloys.

15. (a) Describe the characteristics of high temperature materials.

Or

(b) Explain the thermal protection system requirements for the space vehicles.