



12. (a) Why to study the data collection and prepare 3-D drawings before the design of an Aircraft?

Or

- (b) How does weight and material selection for aircraft components influence the aircraft design and operation?

13. (a) Write an overall view about comparative merits between various types of aircraft power plant.

Or

- (b) How cost of power source and power to weight ratio are interrelated for an aircraft?

14. (a) What is known as an aerofoil and how to select a particular aerofoil for a fighter plane?

Or

- (b) How to design and locate the fuselage for a passenger aircraft?

15. (a) Write the steps involved in the design of landing gear mechanism for an aircraft.

Or

- (b) In case of landing gear not functioning, what are the options for emergency landing of an aircraft?

PART C — (1 × 15 = 15 marks)

16. (a) How to design a fighter plane to take-off and land in the confined space of an "Aircraft Carrier"?

Or

- (b) What is understood by the terms "Stealth Bomber", Fighter Aircrafts?