



Q.6 Which of the following supports an aircraft on the ground?

- a) Rubber                      b) Engines
- c) Aileron                    d) Landing gear

Q.7 What is a tail dragger?

- a) Two main gears in the front and one small under the tail
- b) One gear under the nose and two under the wings
- c) Three gears under the fuselage in a line
- d) No wheel near tail

Q.8 Design load is defined as \_\_\_\_\_

- a) the Highest possible load that structure is designed to withstand without braking
- b) the highest normal stress when strain is only quarter
- c) the lowest load that structure has to withstand
- d) lift and drag only

Q.9 The earliest aircraft were constructed primarily of \_\_\_\_\_

- a) Steel                      b) Aluminum
- c) Steel                      d) Wood

Q.10 The is ruddervator \_\_\_\_\_

- a) Alevon
- b) Rudder and Elevator combination
- c) Airplane without rudder
- d) Vibrating Rudder

## SECTION-B

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

Q.11 What type of undercarriage are used in medium transport airplanes?

Q.12 What is an oleo strut?

Q.13 What is a canard?

Q.14 What direction Lift acts on airplane in climbing?

Q.15 Where is the control for brakes?

Q.16 Which type of aircraft have fixed landing gears?

Q.17 What are the types of fuel tanks?

Q.18 Where are sealants used?

Q.19 What do you mean by stressed construction?

Q.20 What are auxiliary control systems?

## SECTION-C

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

Q.21 Classify different type of aircrafts.

Q.22 Write the benefits of using composites in an aircraft structure?

Q.23 What are main structural components of an airplane?

Q.24 Why the windows of aircraft are oval in shape?

Q.25 How is an aircraft constructed ? Mention the various structural components in a wing.