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NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » **Introduction to Aerospace Engineering/Flight**
(course)

Announcements (announcements) **About the Course** (https://swayam.gov.in/nd1_noc19_ae05/preview)

Ask a Question (forum) Progress (student/home) Mentor (student/mentor)

Unit 4 - Week 2

Course outline

How to access the portal?

Preliminaries for the Course

Week 1

Week 2

- Lecture 5 :
Aircraft
Component
Nomenclature :
Wing and its
Components
(unit?
unit=19&lesson=15)

- Lecture 6 :
Aircraft
Component
Nomenclature :
Fuselage and its
Components
(unit?
unit=19&lesson=16)

- Lecture 7 :
Aircraft
Component

Assignment 2

The due date for submitting this assignment has passed. Due on 2019-08-21, 23:59 IST. As per our records you have not submitted this assignment.

The following questions **may have more than one correct answers**. Read and analyse the question carefully before selecting the answer (s).

Marks will be awarded only if all the correct answers are selected.

No partial marks will be awarded.

1) The Auxiliary Power Unit (APU) is utilized to provide power for **1 point**

- Operating the aircraft from short runways
- Starting-up the engine for takeoff
- Air-conditioning to the passenger cabin when engine is switched before takeoff
- Air-conditioning to the passenger cabin when engine is switched off after landing

No, the answer is incorrect.

Score: 0

Accepted Answers:

Starting-up the engine for takeoff

Air-conditioning to the passenger cabin when engine is switched before takeoff

Air-conditioning to the passenger cabin when engine is switched off after landing

2) Which of the following statements is/are true for Ventral Fins? **1 point**

- They are located just ahead of the vertical fin on the fuselage
- They are always fixed, and located below the fuselage
- They are provided only on high performance military aircraft
- They are provided to improve directional stability

Nomenclature :
Tail Plane and
its Components
(unit?
unit=19&lesson=17)

Lecture 8 :
Tutorial 1 :
Aircraft
Component
Nomenclature
(unit?
unit=19&lesson=18)

Quiz :
Assignment 2
(assessment?
name=92)

Assignment-2
Solution (unit?
unit=19&lesson=106)

Weekly
Feedback (unit?
unit=19&lesson=115)

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

Week 9

Week 10

Week 11

Week 12

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No, the answer is incorrect.
Score: 0

Accepted Answers:
They are provided to improve directional stability

3) What is the purpose of Trailing Edge Flaps in a transport aircraft? **1 point**

- Improve only its takeoff performance
- Improve only its landing performance
- Improve its takeoff and landing performance
- None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Improve its takeoff and landing performance

4) Study the image given in the figure below. Which of the following is/ are true with **1 point** regard to an aircraft?

- Rotation about lateral axis is roll and rotation about longitudinal axis is pitch
- Rotation about normal axis is yaw and rotation about longitudinal axis is pitch
- Rotation about lateral axis is pitch and rotation about longitudinal axis is roll
- Rotation about normal axis is roll and rotation about lateral axis is yaw

No, the answer is incorrect.
Score: 0

Accepted Answers:
Rotation about lateral axis is pitch and rotation about longitudinal axis is roll

5) Which of the following statements is/ are true? **1 point**

- Aileron controls the pitch
- Rudder controls yaw
- Elevator controls the pitch
- Elevator controls the roll

No, the answer is incorrect.
Score: 0

Accepted Answers:
Rudder controls yaw
Elevator controls the pitch

6) Which of the following control surfaces is/are used only to increase drag in an aircraft? **1 point**

- Flaps
- Airbrakes
- Slats
- Spoilers

No, the answer is incorrect.
Score: 0

Accepted Answers:
Airbrakes
Spoilers

7) Which of the following is/ are true for slats?

1 point

- Slats are used to enhance lift
- Slats are used to control pitch
- Slats are used during take off and landing
- Slats are used to alter airfoil shape

No, the answer is incorrect.

Score: 0

Accepted Answers:

Slats are used to enhance lift

Slats are used during take off and landing

Slats are used to alter airfoil shape

8) The aircraft that was built in both V-tail and conventional tail configuration is:

1 point

- General Atomics MQ-1 Predator
- Beechcraft Bonanza
- Lockheed F-117 Nighthawk
- Fouga CM.170 Magister

No, the answer is incorrect.

Score: 0

Accepted Answers:

Beechcraft Bonanza

9) Which of the following is/are true for Fowler flaps?

1 point

- Extends to increase wing area
- Used to change the camber of the airfoil
- Increases the lift generation by wing
- Mounted on the trailing edge of the wing

No, the answer is incorrect.

Score: 0

Accepted Answers:

Extends to increase wing area

Used to change the camber of the airfoil

Increases the lift generation by wing

Mounted on the trailing edge of the wing

10) Which of the following is/are not high lift devices on an aircraft?

0 points

- Wing
- Flaps
- Slats
- Flaperons

No, the answer is incorrect.

Score: 0

Accepted Answers:

Flaps

Slats

Flaperons

