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NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » **Design of fixed wing Unmanned Aerial Vehicles**
(course)

Announcements (announcements) **About the Course** (https://swayam.gov.in/nd1_noc19_ae06/preview)

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

Unit 2 - Week 1

Course outline

How to access the portal

Week 1

- Lecture 1 - Introduction , course content and classification of UAVs (unit? unit=6&lesson=7)
- Lecture 2 - Measurement of Flight Velocity and Standard Atmosphere (unit? unit=6&lesson=8)
- Lecture 3 - Anatomy of Airplane and Airfoil Nomenclature (unit? unit=6&lesson=9)
- Classification of UAVs - PPT

Assignment 01

The due date for submitting this assignment has passed. Due on 2019-08-14, 23:59 IST. As per our records you have not submitted this assignment.

1) Range of Unmanned Aircraft depends upon?

1 point

- Payload carrying capacity of an Unmanned Aircraft.
- Aerodynamics of Unmanned Aircraft.
- Atmospheric conditions in which Unmanned Aircraft is flying.
- All of these.

No, the answer is incorrect.
Score: 0

Accepted Answers:
All of these.

2) High altitude long endurance Unmanned Air Vehicle is flying at an altitude of 151 point km of geopotential altitude the density in (kg/m^3) at that altitude will be nearest to?

- 0.364724
- 0.368953
- 0.193613
- 0.123658

No, the answer is incorrect.
Score: 0

Accepted Answers:
0.193613

3) The Temperature ratio at 16km and 14 km geopotential altitude is?

1 point

- 0.95

(unit?
unit=6&lesson=10)

Quiz :
Assignment 01
(assessment?
name=53)

Quiz :
ASSIGNMENT
01
(assessment?
name=58)

Practice
Assignment 01
Solution (unit?
unit=6&lesson=61)

Assignment 01
Solution (unit?
unit=6&lesson=62)

Feedback For
Week 1 (unit?
unit=6&lesson=65)

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

**Text
Transcription**

- 0.90
 1.00
 0.65

No, the answer is incorrect.

Score: 0

Accepted Answers:

1.00

4) The density ratio at 11 km and 0 km geopotential altitude is? **1 point**

- 0.3529
 0.2580
 0.2185
 0.2969

No, the answer is incorrect.

Score: 0

Accepted Answers:

0.2969

5) The standard atmospheric properties represents? **1 point**

- Mean experimental data.
 Experimental data.
 Data without performing experiments.
 None of these.

No, the answer is incorrect.

Score: 0

Accepted Answers:

Mean experimental data.

6) The Pressure ratio at 20km and 0 km geopotential altitude is? **1 point**

- 0.054
 0.035
 0.044
 0.038

No, the answer is incorrect.

Score: 0

Accepted Answers:

0.054

7) The value of geometric altitude (In Kilometres) at which the difference between geopotential altitude and geometric altitude is equal to 3%? **1 point**

- 160.43
 162.56
 170.59
 186.41

No, the answer is incorrect.

Score: 0

Accepted Answers:

186.41

8) Unmanned Aircraft can be classified based on? **1 point**

- Size of the Unmanned Aircraft.

- Weight of the Unmanned Aircraft.
- Mode of operations.
- All of these.

No, the answer is incorrect.

Score: 0

Accepted Answers:

All of these.

9) Among the following which one is NOT a unique altitude?

1 point

- Temperature altitude.
- Geometric altitude.
- Geopotential altitude.
- Both Option 'Temperature altitude' and 'Geometric altitude' are correct.

No, the answer is incorrect.

Score: 0

Accepted Answers:

Temperature altitude.

10) Static pressure acts?

1 point

- Normal to flow direction.
- Parallel to flow direction.
- At 180 degrees to flow direction.
- None of these.

No, the answer is incorrect.

Score: 0

Accepted Answers:

Normal to flow direction.