Unit 1 - How does an NPTEL online course work?

Course outline

How does an NPTEL online course work?

- Welcome to NPTEL open online course
- Information about the course and accessing the content
- Announcement
- Discussion Forum: Do you have a doubt or question
- Know your scores in the Assignments
- What you should know about the final certification exam
- Certification criteria
- Best practices to maximize the learning from the online course
- Guidelines and Timelines
- MCQ and MSQ Assignment
- Numerical and Short Answer Assignment
- Subjective Assignment (Essay Type)
- Subjective Assignment (Scan and Upload)
- Programming Assignment
- Quiz : Assignment 0

Week 01

Week 02

Week 03

Week 04

WEEK 05

WEEK 06

WEEK 07

WEEK 08

Text Transcripts

VIDEO DOWNLOADS

Assignment 0

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2020-01-27, 23:59 IST.

1) The variation of the properties in the standard atmosphere are calculated based on the Assumption? *1 point*

- Constant value of entropy
- Constant value of enthalpy
- Constant value of acceleration due to gravity at standard sea level condition
- None of these

No, the answer is incorrect.
Score: 0
Accepted Answers:
Constant value of acceleration due to gravity at standard sea level condition

2) Endurance of Airplane depends upon? *1 point*

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

No, the answer is incorrect.
Score: 0
Accepted Answers:
All of these

3) The Temperature ratio at 16 km and 17 km is? *1 point*

- 0.99
- 0.58
- 0.90
- 1.00

No, the answer is incorrect.
Score: 0
Accepted Answers:
1.00

4) Static pressure acts? *1 point*

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

No, the answer is incorrect.
Score: 0
Accepted Answers:
Normal to flow direction

5) Because of positive camber in the aerofoil? *1 point*

- $CLmax$ decreases, $astall$ increases
- $CLmax$ increases, $astall$ increases
- $CLmax$ decreases, $astall$ decreases
- $CLmax$ increases, $astall$ decreases

No, the answer is incorrect.
Score: 0
Accepted Answers:
$CLmax$ increases, $astall$ decreases

6) A twin engine airplane is cruising at an altitude of 10Km. When one of engine fails, which control surface serves an essential role in maintaining attitude of the airplane? *1 point*

- Ailerons
- Elevator
- Rudder
- Both Elevator & Aileron

No, the answer is incorrect.
Score: 0
Accepted Answers:
Both Elevator & Aileron

7) Which angle is responsible to generate lift and drag? *1 point*

- Angle of attack
- Flight path angle
- Pitch angle
- All of these

No, the answer is incorrect.
Score: 0
Accepted Answers:
Angle of attack

8) Induced drag for aerofoil is? *1 point*

- Infinite
- Finite but not zero
- Depends upon the free stream velocity
- Zero

No, the answer is incorrect.
Score: 0
Accepted Answers:
Zero

9) In cruise flight, Drag is perpendicular to? *1 point*

- Lift
- Weight
- Free stream velocity
- Both Lift & Weight

No, the answer is incorrect.
Score: 0
Accepted Answers:
Both Lift & Weight

10) Altimeter gives? *1 point*

- Density altitude
- Temperature altitude
- Absolute altitude
- Pressure altitude

No, the answer is incorrect.
Score: 0
Accepted Answers:
Pressure altitude