

Unit 7 - Week 6

Course outline

How does an NPTEL online course work?

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

Convection of Air

Atmospheric Stability and Cloud Formation

Cloud Formation

Cloud Formation and Lifting

Cloud Morphology

Quiz : Assignment 6

Assignment 6 Solution

Week 7

Week 8

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Week 10

Week 11

Week 12

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Assignment 6

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

Due on 2020-03-11, 23:59 IST.

1) An air parcel is said to be saturated if it's relative humidity (%) is 1 point

- less than 90
- greater than 90
- less than 100
- equal to 100

No, the answer is incorrect.
Score: 0

Accepted Answers:
equal to 100

2) Which of the following phenomena is not helpful in convection of air ? 1 point

- divergence at the surface
- convergence at the surface
- topographic lifting
- surface heating

No, the answer is incorrect.
Score: 0

Accepted Answers:
divergence at the surface

3) The size of the condensation nuclei is 1 point

- 2000 micrometer
- 0.2 centimeter
- 200 micrometer
- 0.02 micrometer

No, the answer is incorrect.
Score: 0

Accepted Answers:
0.02 micrometer

4) In the nomenclature of clouds, the term nimbus is added to indicate the _____ of a cloud. 1 point

- shape
- height
- precipitation
- lifting

No, the answer is incorrect.
Score: 0

Accepted Answers:
precipitation

5) An air parcel of unsaturated air is raised to a certain height, when the actual temperature lapse rate is less than the dry adiabatic lapse rate, the air parcel is considered 1 point

- stable
- neutral
- unsaturated
- unstable

No, the answer is incorrect.
Score: 0

Accepted Answers:
stable

6) Calculate the ratio of the wet adiabatic lapse rate and dry adiabatic lapse rate is nearly 1 point

- 0.9
- 0.6
- 0.8
- 0.4

No, the answer is incorrect.
Score: 0

Accepted Answers:
0.6

7) Which of the following clouds can cause heavy rain ? 1 point

- Cirrus
- Stratus
- Cumulus
- Cumulonimbus

No, the answer is incorrect.
Score: 0

Accepted Answers:
Cumulonimbus

8) The condensed air parcel cools more slowly because of _____ in the parcel. 1 point

- internal energy increased
- latent heat released
- pressure increased
- temperature increased

No, the answer is incorrect.
Score: 0

Accepted Answers:
latent heat released

9) The internal energy of sinking air parcel 1 point

- remains zero
- decreases
- increases
- becomes half

No, the answer is incorrect.
Score: 0

Accepted Answers:
increases

10) _____ the rising air parcel can form cloud. 1 point

- Before saturation
- After saturation
- At saturation
- At RH < 100%

No, the answer is incorrect.
Score: 0

Accepted Answers:
After saturation