



Announcements

**About the Course** 

Ask a Question

**Progress** Mentor

1 point

## Unit 8 - Week 7

How does an NPTEL online

Course outline

course work?

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Secondary Cloud

Classification and Fog

Atmospheric Stability

Atmospheric Stability

Stable Unstable and Neutral

Conditions

Atmosphere

Precipitation

Week 8

Week 9

Week 10

Week 11

Week 12

FEEDBACK

DOWNLOAD VIDEOS

Cloud Seeding and

Ouiz: Assignment 7

O Assignment 7 Solution

The due date for submitting this assignment has passed.  As per our records you have not submitted this assignment.	Due on 2020-03-18, 23:59 IS
The cooling of the air near surface due to long-wave emission cause the formation of	1 μ
advection fog	
O radiation fog	
O valley fog	
upslope fog	
No, the answer is incorrect. Score: 0	
Accepted Answers: radiation fog	
2) clouds do not cause precipitation.	1 p
Nimbostratus	
Altostratus	
Cirrostratus	
Altocumulus	
No, the answer is incorrect. Score: 0	
Accepted Answers: Cirrostratus	
<ol> <li>Calculate the supersaturation corresponding to relative humidity of 100.8 %.</li> </ol>	1 pc
0.8 %	
○ 8 %	
O 2 %	
0.2 %	
No, the answer is incorrect. Score: 0	
Accepted Answers: 0.8 %	
4) The Brunt-Väisälä frequency is the frequency of	1 pc
osound waves in the atmosphere	
neutral atmospheric oscillation	
unstable atmospheric oscillations	
stable atmospheric oscillations	
No, the answer is incorrect. Score: 0	
Accepted Answers: stable atmospheric oscillations	
E) Negtilugent eleveds are found in the atmosphere at an eliterate of results	
<ol> <li>Noctilucent clouds are found in the atmosphere at an altitude of nearly</li> </ol>	1 po

advection fog radiation fog valley fog upslope fog	
No, the answer is incorrect. Score: 0 Accepted Answers: radiation fog	
2) clouds do not cause precipitation.	1 point
○ Nimbostratus ○ Altostratus	
○ Cirrostratus ○ Altocumulus	
No, the answer is incorrect. Score: 0	
Accepted Answers: Cirrostratus	
3) Calculate the supersaturation corresponding to relative humidity of 100.8 %.	1 point
0.8 % 0 8 %	
○ 2 % ○ 0.2 %	
No, the answer is incorrect. Score: 0 Accepted Answers: 0.8 %	
4) The Brunt-Väisälä frequency is the frequency of	1 point
osound waves in the atmosphere neutral atmospheric oscillation unstable atmospheric oscillations stable atmospheric oscillations	
No, the answer is incorrect. Score: 0 Accepted Answers:	
Stable atmospheric oscillations  Noctilucent clouds are found in the atmosphere at an altitude of nearly	1 point
○ 10 km ○ 5 km	
○ 50 km ○ 80 km	
No, the answer is incorrect. Score: 0 Accepted Answers: 80 km	
6) balances the force due to the gravitational pull in hydrostatic equilibrium.	1 point
Coriolis force Vertical pressure gradient force Viscous force Frictional force	
No, the answer is incorrect. Score: 0 Accepted Answers:	
Vertical pressure gradient force  7) In a neutral atmosphere, the environmental lapse rate is	1 point
○ less than SALR	
greater than SALR equal to SALR zero	
No, the answer is incorrect. Score: 0 Accepted Answers:	
equal to SALR  8) For snowfall, the vertical temperature profile is	1 point
negative throughout altitude	
negative in higher altitude and positive in low altitudes zero	
O positive throughout altitude  No, the answer is incorrect. Score: 0	
Accepted Answers: negative throughout altitude	
9) The size (diameter) of the drizzle is	1 point
greater than 0.5 mm less than 0.02 mm	
less than 0.5 mm equal to 0.5 mm	
No, the answer is incorrect. Score: 0	
Accepted Answers: less than 0.5 mm	
10) The atmosphere is said to be conditionally stable if Here; SALR = saturated adiabatic lapse rate, ELR = environmental lapse rate, DALR = dry adiabatic lapse rate)	1 point
SALR < ELR > DALR SALR < ELR < DALR	
SALR > ELR < DALR SALR > ELR > DALR	
No, the answer is incorrect. Score: 0	
Accepted Answers:  SALR < ELR < DALR	