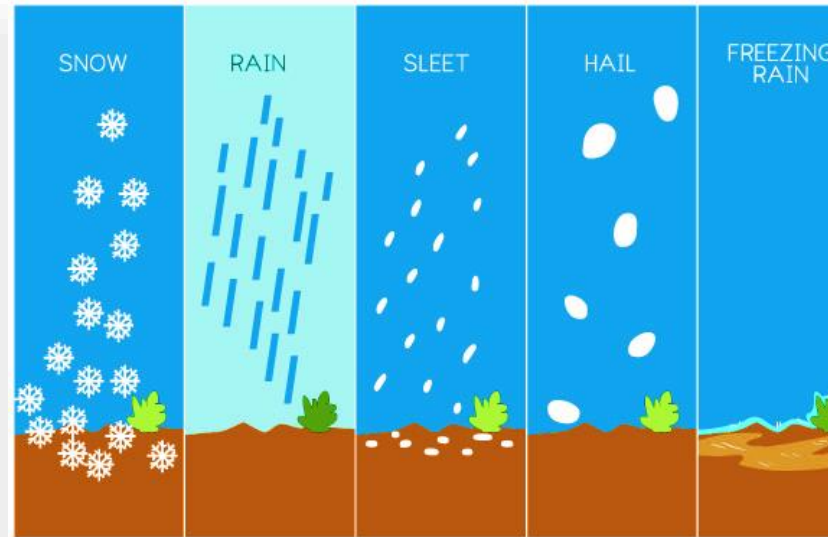


Atmosphere MCQ's



Which Of Following Statements About The Ionosphere Is Correct

I) It Is Uppermost Layer Of Atmosphere

II. The Molecules And Atoms Of Nitrogen And Oxygen In This Layer Absorb Some Of Solar Radiation And Become Ionized

III. This Layer Is Responsible For Reflecting Back Radio Wave Transmitted From The Earth

A. I and II

B. I and II

C. II and III

D. I II and III

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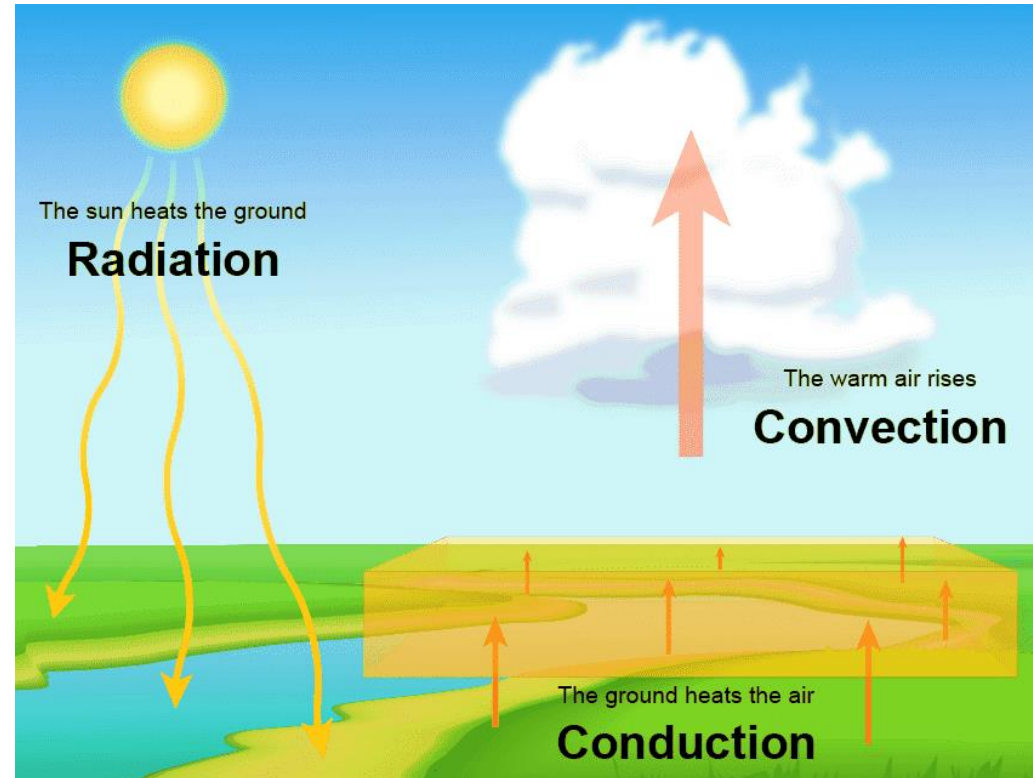
This Layer's Molecules And Atoms Of Nitrogen And Oxygen Receive Some Solar Energy And Get Ionized, And It Is Responsible For Reflecting Back The Radio Wave Transmitted From The Earth.

Atmospheric Temperature Increases At Higher Altitudes Due To

- A. Convection
- B. Radiation
- C. Conduction
- D. Inversion

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Which One Of The Following Processes Is Not A Part Of Long Wave Radiation

- A. Conduction
- B. Scattering
- C. Convection
- D. Radiation

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Long wave radiations are the electromagnetic radiation of wavelengths between 3.0 to 100 μm emitted from Earth and its atmosphere out to space in the form of thermal radiation. The process of long wave radiation involves Conduction, Convection, and Radiation

Humidity Of The Air

- A. Increases With The Increase In Atmospheric Temperature
- B. Decreases With The Increase In Atmospheric Temperature
- C. Is Not Affected By The Change In Atmospheric Temperature
- D. Does Not Show Any Consistent Behaviour With The Change In Atmospheric Temperature

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Relative humidity

- A. Increases With Increased Temperature
- B. Decreases With Increased Temperature
- C. Decreases With Decreased Temperature
- D. Has No Relation With Increase Or Decrease Of Temperature

Relative Humidity

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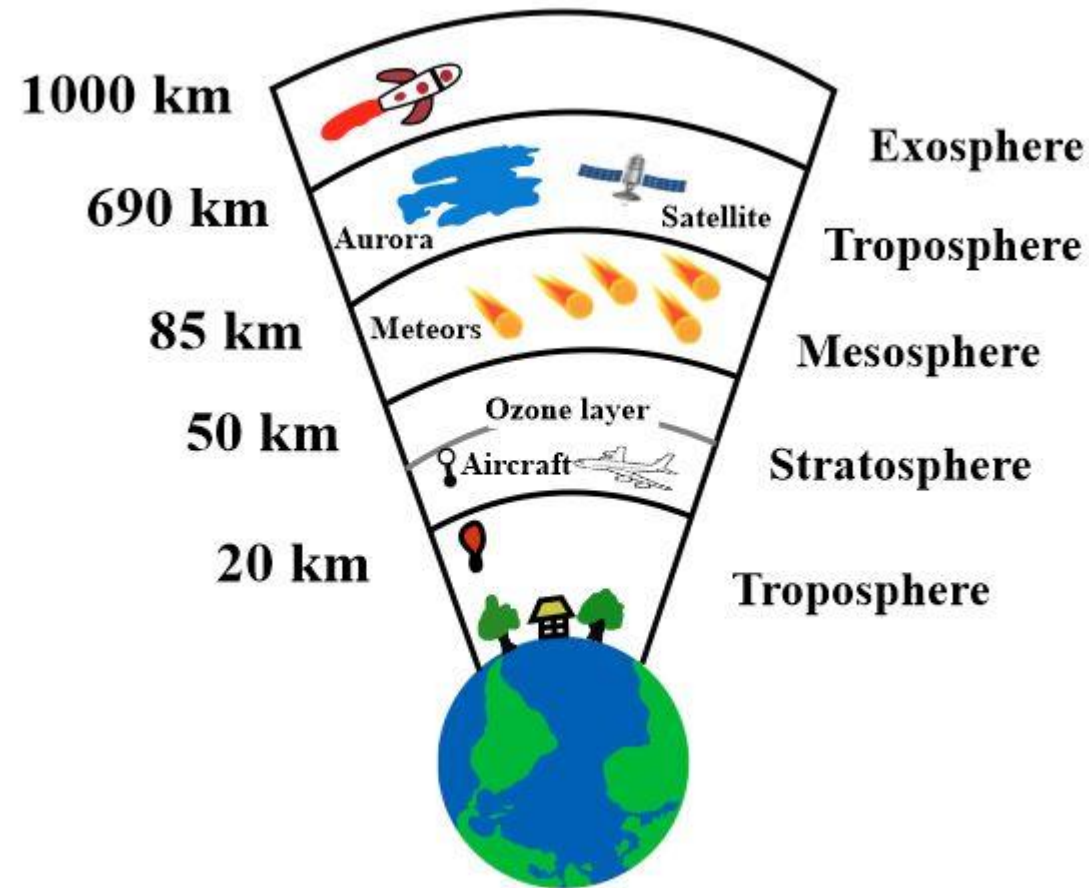
Relative humidity is the percentage of moisture in the atmosphere compared to its full capacity at a given temperature. Changes with air temperature, affecting the air's capacity to retain moisture.

Which One Of The Following Layers Of Atmosphere Has High Concentration Of Ions

- A. Stratosphere
- B. Exosphere
- C. Thermosphere
- D. Troposphere

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Which One Of Following Instruments Is Used For Measuring Moisture Content Of Air

- A. Hydrometer
- B. Hygrometer
- C. Hypsometer
- D. Pycnometer

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Which One Of Following Statements Is Not Correct

- A. The Rate Of Evaporation Depends On Temperature
- B. The Rate Of Evaporation Does Not Depend On Surface Area Exposed To The Atmosphere But On Volume Of The Liquid
- C. The Rate Of Evaporation Depends On Humidity Of The Surroundings
- D. The Rate Of Evaporation Depends On The Wind Speed

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The rate of evaporation depends on four main factors:

Temperature: As temperature increases, the rate of evaporation also increases.

Surface area: The larger the surface area, the faster the rate of evaporation.

Wind: The presence of wind affects the rate of evaporation.

Humidity: The humidity of the surrounding environment affects the rate of evaporation.

A Layer In Earth's Atmosphere Called Ionosphere Facilitates Radio Communication

1. The Presence Of Ozone Causes The Reflection Of Radio Waves To Earth.
2. Radio Waves Have A Very Long Wavelength.

Which Of The Statements Given Above Is/Are Correct?

- A. 1 only
- B. 2 only
- C. Both 1 and 2
- D. Neither 1 nor 2

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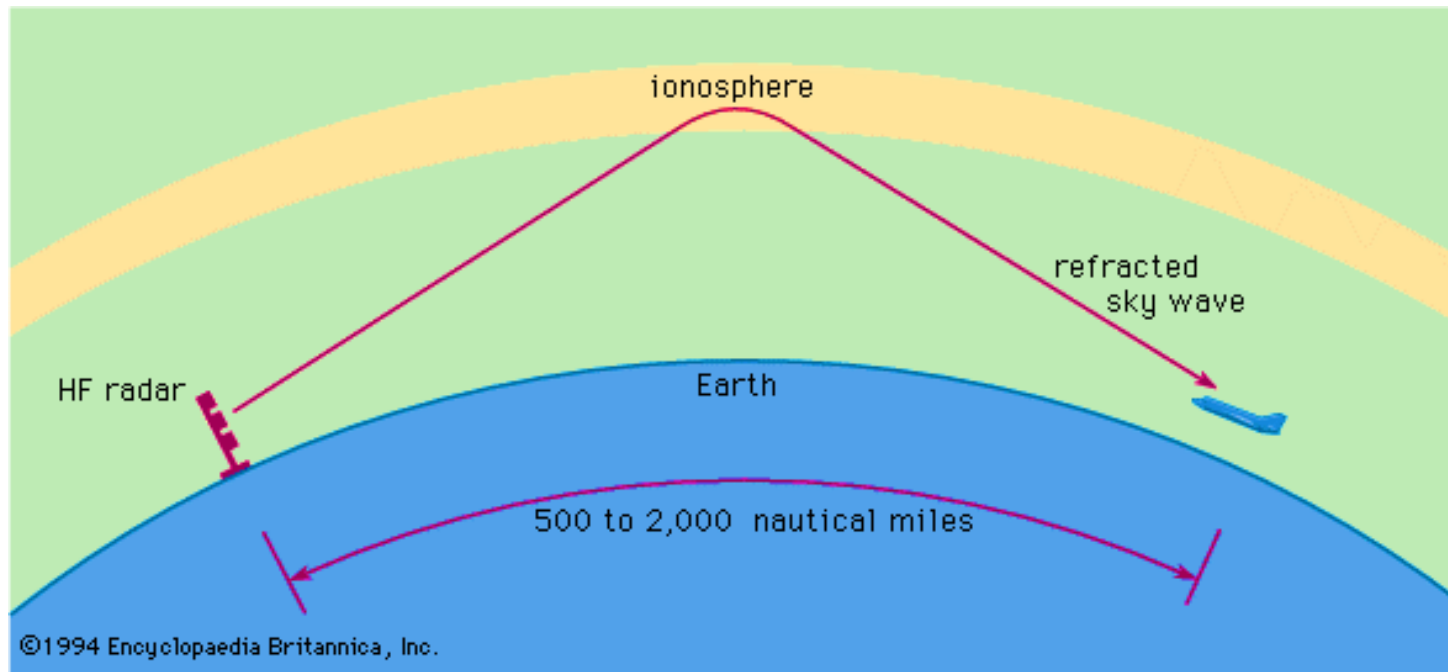
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The Ionosphere Is Part Of Earth's Upper Atmosphere, Between 80 And About 600 Km Where Extreme Ultraviolet And X-ray Solar Radiation Ionizes.

The Atoms And Molecules Thus Creating A Layer Of Electrons. The Ionosphere Is Important Because It Reflects And Modifies Radio Waves Used For Communication And Navigation.



The Jet Aircrafts Fly Very Easily And Smoothly In The Lower Stratosphere.

1. There Are No Clouds Or Water Vapour In The Lower Stratosphere.
2. There Are No Vertical Winds In The Lower Stratosphere

Which of the statements given above is/are correct in this context?

- A. 1 only
- B. 2 only
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Why Are Dewdrops Not Formed On A Cloudy Night

- A. Clouds Absorb The Radiation Released From The Earth's Surface.
- B. Clouds Reflect Back The Earth's Radiation.
- C. Earth's Surface Would Have Low Temperature On Cloudy Nights.
- D. Clouds Deflect The Blowing Wind To Ground Level.

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Dew Forms As Temperatures Drop And Objects Cool Down. If The Object Becomes Cool Enough, The Air Around The Object Will Also Cool. Colder Air Is Less Able To Hold Water Vapor Than Warm Air. This Forces Water Vapor In The Air Around Cooling Objects To Condense.

Which One Of Following Is Correct Descending Order Of Permanent Gases Of Atmosphere

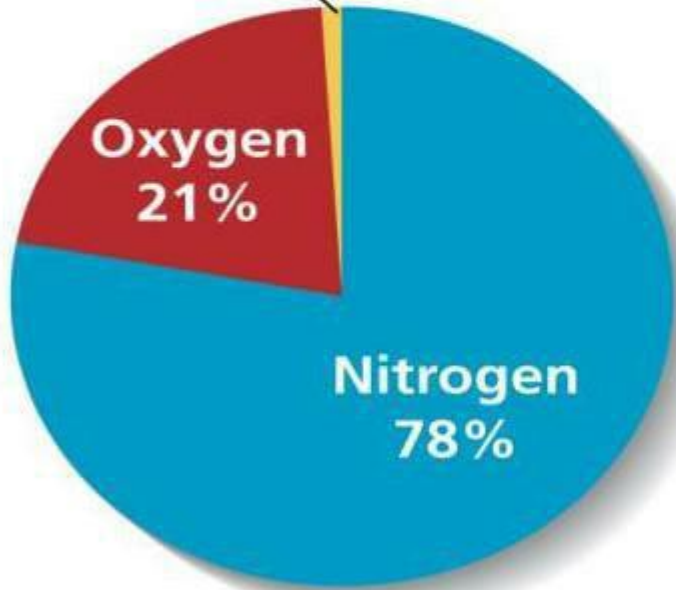
- A. Argon > Carbon dioxide > Neon > Helium
- B. Carbon dioxide > Argon > Neon > Helium
- C. Carbon dioxide > Argon > Helium > Neon
- D. Argon > Carbon dioxide > Helium > Neon

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- C. Carbon dioxide > Argon > Helium > Neon
- D. Argon > Carbon dioxide > Helium > Neon

All other gases

1%



Nitrogen
78%

Oxygen
21%

Gas	Percentage by Volume
Nitrogen (N ₂)	78.084
Oxygen (O ₂)	20.946
Argon (Ar)	0.934
Carbon dioxide (CO ₂)	0.037
Neon (Ne)	0.00182
Helium (He)	0.00052
Methane (CH ₄)	0.00015
Krypton (Kr)	0.00011

Which One Of The Following Is Correct About Water Vapour

1. Water Vapour In Atmosphere Increases With Altitude
2. Water Vapour Decreases From The Equator Towards The Pole

Select the correct options:

- A. 1 only
- B. 2 only
- C. Both
- D. None of the above

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D. None of the above

Which One Of Following Is Correct Order Of Layers In Atmosphere

- A. Troposphere, Stratosphere, Mesosphere, Thermosphere, Exosphere
- B. Stratosphere, Troposphere, Mesosphere, Thermosphere, Exosphere
- C. Stratosphere, Troposphere, Mesosphere, Exosphere, Thermosphere
- D. Troposphere, Stratosphere, Mesosphere, Exosphere, Thermosphere

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Layers of the Atmosphere

10000 km (6200 mi)

Exosphere

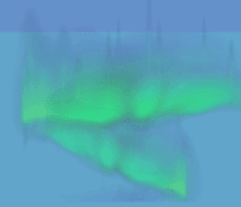
space station



700 km (440 mi)

Thermosphere

aurora



80 km (262000 ft)

meteors

Mesosphere

50 km (164000 ft)



Stratosphere

weather balloon



12 km (39000 ft)

Troposphere

jet



0 km (0 ft)

hot air balloon



Which One Of Following Is True About Stratosphere

1. Ozone layer is found in stratosphere.
2. Aeroplanes fly in stratosphere

Select the correct options:

- A. 1 only
- B. 2 only
- C. Both 1 & 2
- D. None Of The Above

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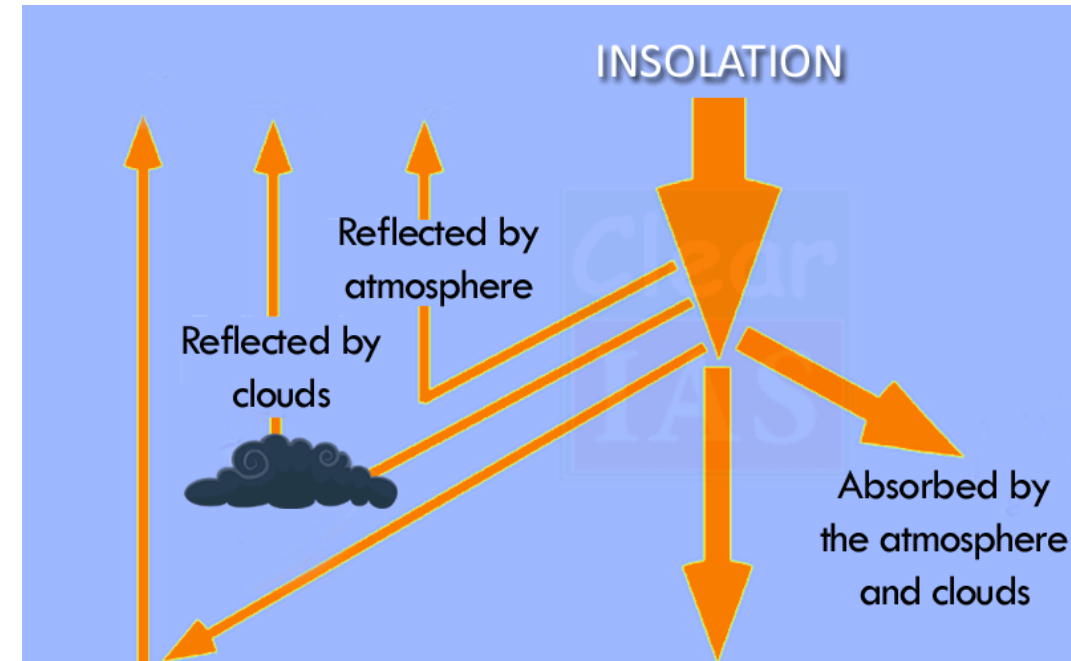
- A. 1 only
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- D. None Of The Above

Which Of Following Factors Is Not Associated With Insolation At Surface Of Earth

- A. Rotation Of Earth On Its Axis
- B. Angle Of Inclination Of The Sun's Rays
- C. Transparency Of The Atmosphere
- D. None Of The Above

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Due To _____ Wind In Southern Hemisphere Is Diverted To Left

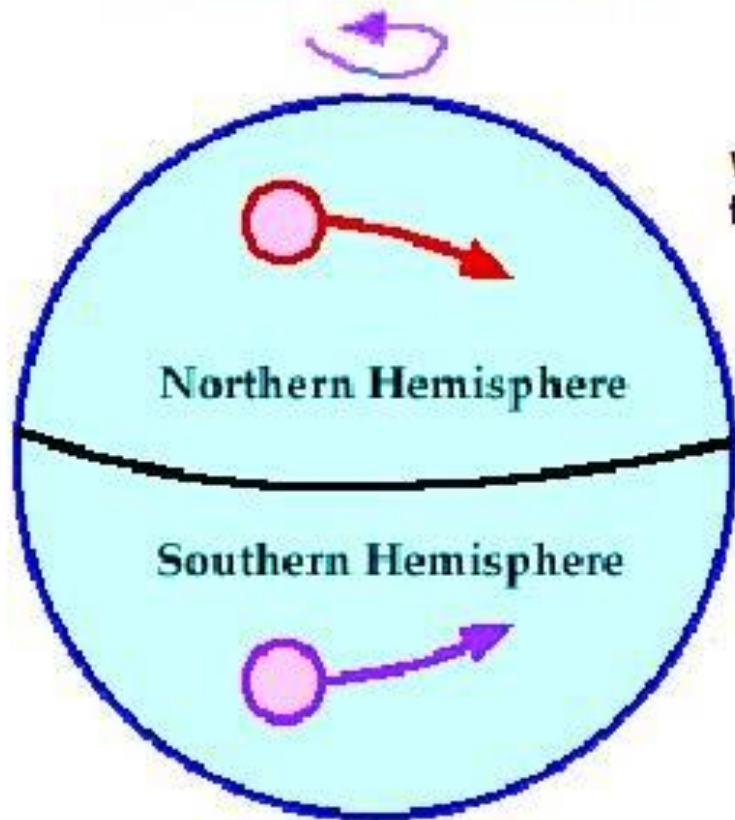
- A. Temperature Variations
- B. Rotation Of The Earth
- C. Difference In Pressure
- D. Difference In Water Content

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- C. Difference In Pressure
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CORIOLIS FORCE

Due to the Earth's Rotation



Wind deflects to the right in the Northern Hemisphere

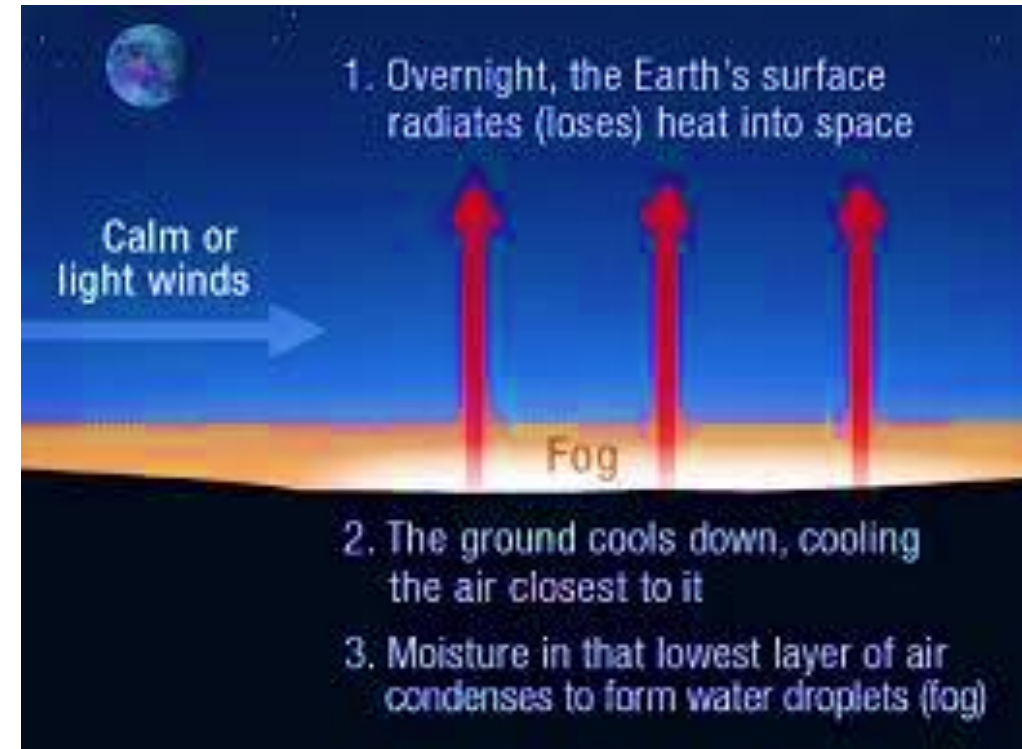
Wind deflects to the left in the Southern Hemisphere

Fog Formation Agents Do Not Include

- A. High Relative Humidity
- B. Diurnal Temperatures Of Short Ranges
- C. Winter Season
- D. Rapid Radiation

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Which Of Following Forces Is Most Powerful In Determining Wind Movement, Including Velocity

- A. The Force Of Gravity
- B. The Centrifugal Force
- C. Frictional Force
- D. Pressure Gradient Force

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Which Is The Atmosphere's Warmest Layer

- A. Thermosphere
- B. Troposphere
- C. Stratosphere
- D. Mesosphere

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Rainbow Is Produced When Sunlight Falls On Drops Of Rain Due To

1. Dispersion
2. Refraction
3. Internal reflection

Select the correct answer using the codes given below.

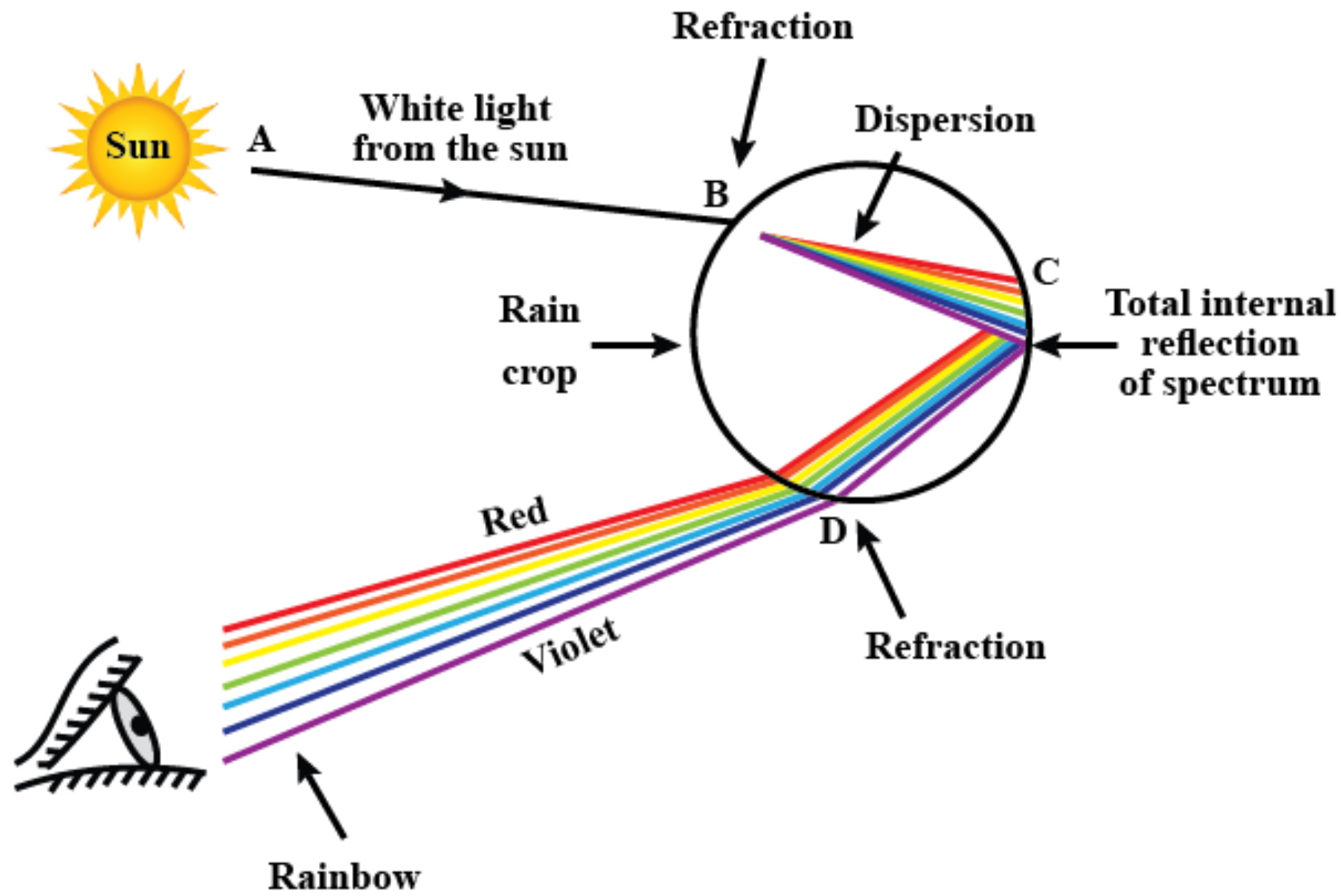
- A. 1 and 2 only
- B. 2 and 3 only
- C. 1 and 3 only
- D. 1, 2 and 3

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- C. 1 and 3 only
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During A Thunderstorm, The Thunder In The Skies Is Produced By

1. Meeting Of Cumulonimbus Clouds In The Sky
2. Lightning That Separates The Nimbus Clouds
3. Violent Upward Movement Of Air And Water Particles

Select The Correct Answer Using The Codes Given Below

- A. 1 only
- B. 2 and 3
- C. 1 and 3
- D. None of the above produces the thunder

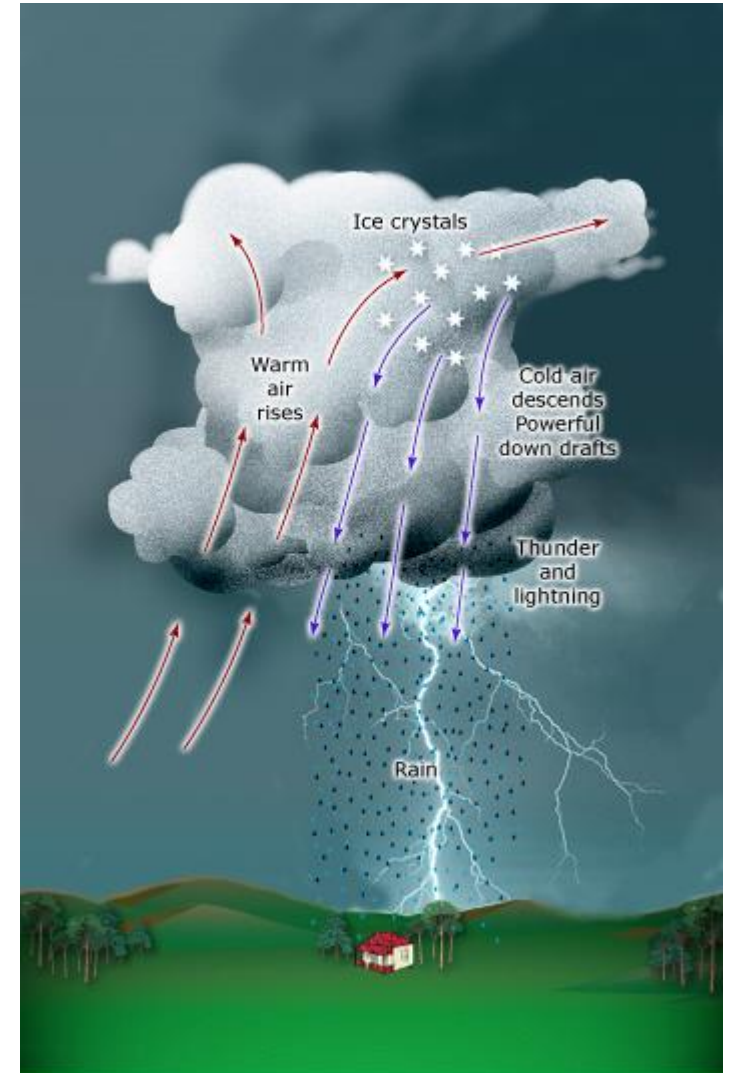
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Select The Correct Answer Using The Codes Given Below

- A. 1 only
- B. 2 and 3
- C. 1 and 3
- D. **None of the above produces the thunder**

Thunder Is Created When Lightning Passes Through The Air. The Lightning Discharge Heats The Air Rapidly And Causes It To Expand. The Temperature Of The Air In The Lightning Channel May Reach As High As 50,000 Degrees Fahrenheit, 5 Times Hotter Than The Surface Of The Sun.



Increasing Amount Of Carbon Dioxide In Air Is Slowly Raising Temperature Of Atmosphere, Because It Absorbs

- A. The Water Vapour Of The Air And Retains Its Heat
- B. The Ultraviolet Part Of The Solar Radiation
- C. All The Solar Radiations
- D. The Infrared Part Of The Solar Radiation

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Temperature Decreases With Increase In Height From The Earth's Surface, Because

1. The Atmosphere Can Be Heated Upwards Only From The Earth's Surface
2. There Is More Moisture In The Upper Atmosphere
3. The Air Is Less Dense In The Upper Atmosphere

Select the correct answer using the codes given below :

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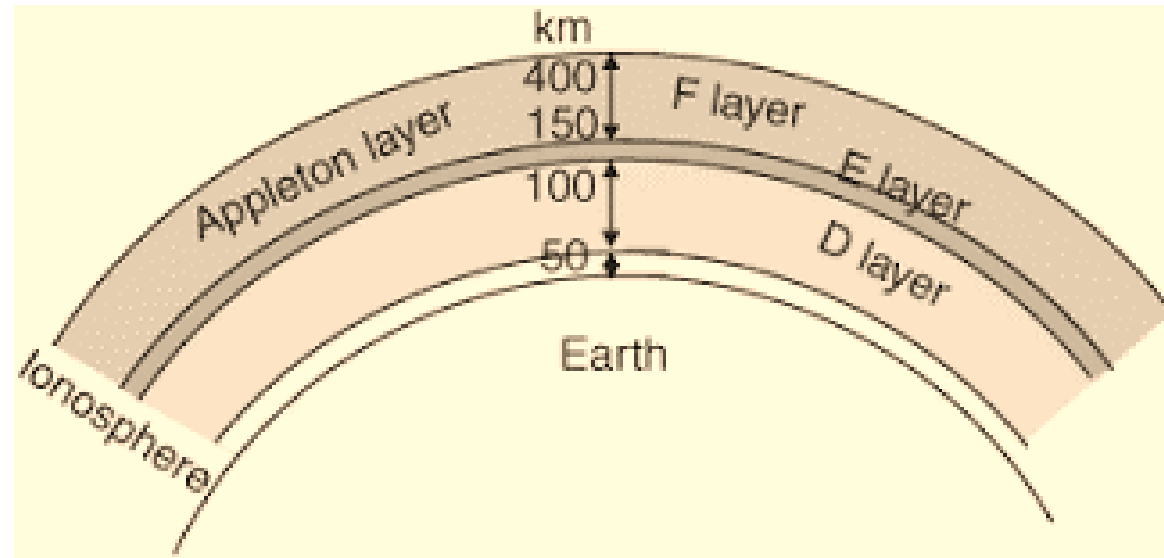
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Appleton Layer Is A Part Of _____

- A. Stratosphere
- B. Troposphere
- C. Ionosphere
- D. Exosphere

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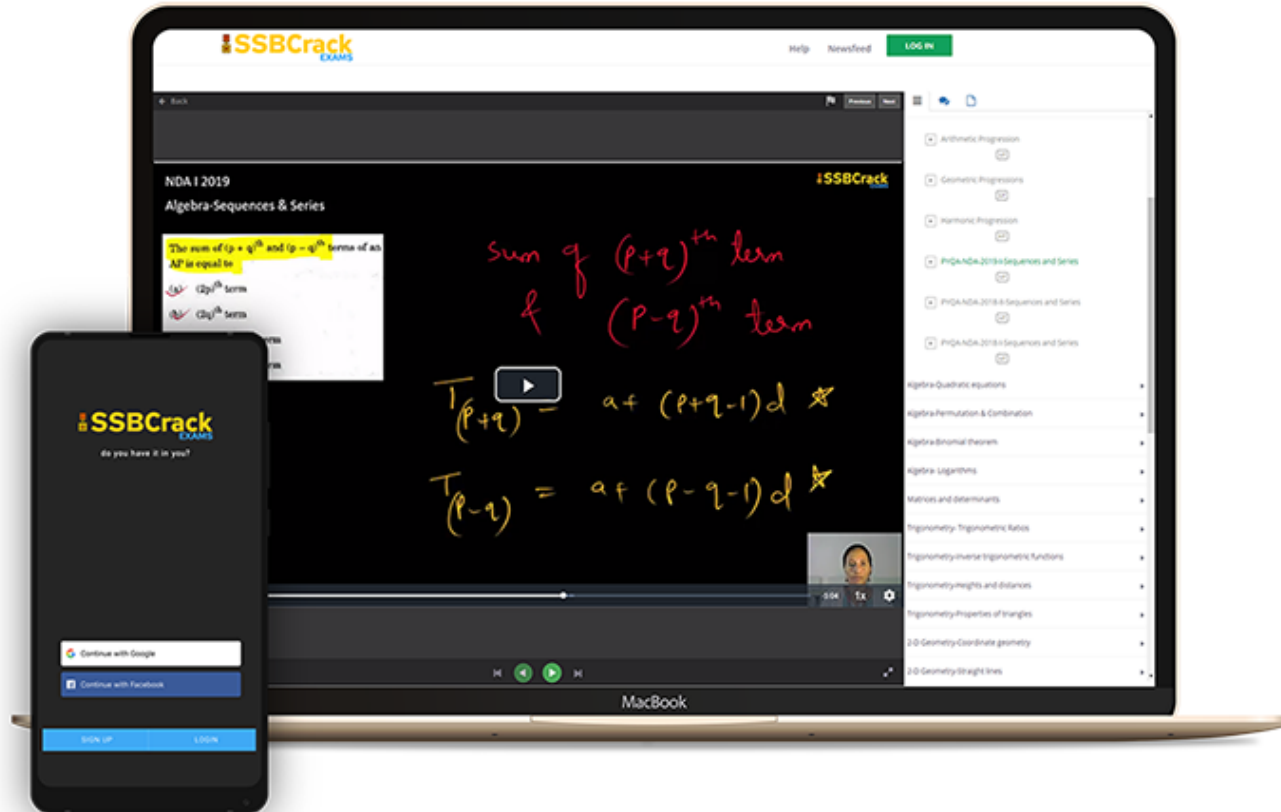
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