Assignment 9

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

1. The mesosphere averages with:
   - Mesosphere
   - Thermosphere
   - Homosphere and troposphere
   - Thermosphere/Thermosphere and Exosphere
   - Yes, the answer is incorrect. Score: 0
   - Accepted Answer: Thermosphere/Exosphere

2. What is the extension of the stratosphere above the surface of Earth?
   - 0 km to 60 km
   - 50 km to 125 km
   - 40 km to thousands of kilometers
   - 0 to 120 km
   - Yes, the answer is incorrect. Score: 0
   - Accepted Answer: 0 to 120 km

3. Which of the following makes the existence of atmosphere possible?
   - Reduction of the Earth
   - Ultraviolet radiation from sun
   - Solar flare
   - Radiation from distant stars
   - Yes, the answer is incorrect. Score: 0
   - Accepted Answer: Ultraviolet radiation from sun

4. Which ionospheric layer exists during day time & usually vanishes at night due to highest recombination rate?
   - D-region
   - Normal E-region
   - Sudden ionization region
   - F2-region
   - Yes, the answer is incorrect. Score: 0
   - Accepted Answer: D-region

5. If the maximum electron density for F-layer in ionosphere is x \( 10^7 \) electrons/m^3, then what will be the critical frequency of D wave for F-layer?
   - 4 kHz
   - 6 kHz
   - 18 kHz
   - 18 kHz
   - Yes, the answer is incorrect. Score: 0
   - Accepted Answer: 18 kHz

6. Which of the following atmospheric chemical reactants dominates?
   - Photodissociation
   - Dissociative recombination
   - Escape from atmosphere
   - Charge exchange
   - Yes, the answer is incorrect. Score: 0
   - Accepted Answer: Dissociative recombination

7. Which among the following plays a primary role in generation of conduction current in an ionosphere due to presence of electric field?
   - Ions
   - Molecules of electrons
   - Neutral molecules
   - Freeze out
   - Yes, the answer is incorrect. Score: 0
   - Accepted Answer: Ions

8. Which mechanism is likely to occur in mid-frequency operation corresponding to ionospheric region?
   - Only Reflection
   - Only Reflection and Particular reflection and absorption
   - None of the above
   - Yes, the answer is incorrect. Score: 0
   - Accepted Answer: Particular reflection and absorption

9. F2 layer of Apogee region acts as a significant reflecting medium for ______ frequency radio waves.
   - Low
   - Medium
   - High
   - Ultra high
   - Yes, the answer is incorrect. Score: 0
   - Accepted Answer: High

10. What is the possible range of height for the occurrence of sporadic F-region with respect to normal F-region?
    - 20 km – 40 km
    - 40 km – 80 km
    - 90 km – 130 km
    - <40 km – 200 km
    - Yes, the answer is incorrect. Score: 0
    - Accepted Answer: 90 km – 130 km