

CUET PG 2026 Atmospheric Science Question Paper (Memory Based)

Time Allowed :1 Hours 30 min | Maximum Marks :300 | Total Questions :75

General Instructions

1. The exam lasts 90 minutes (1 hour 30 minutes).
2. There are 75 Multiple Choice Questions (MCQs) to be answered.
3. +4 marks for every correct answer. -1 mark (negative marking) for every incorrect answer. 0 marks for unanswered or un-attempted questions.
4. For any discrepancy in questions, the English version is considered final (except for language-specific papers).
5. Click one of the four options to choose an answer.
6. You must click "Save & Next" to confirm your response. Only saved answers are considered for evaluation.
7. Use "Mark for Review & Next" to flag a question for later. You can unselect or change your answer using the "Clear Response" button.
8. All calculations must be done on the Rough Sheets provided at the centre. These must be returned to the invigilator after the exam.

1. What is the value of the Dry Adiabatic Lapse Rate (DALR) in the Earth's atmosphere?

- (A) $6.5^{\circ}\text{C}/\text{km}$
- (B) $9.8^{\circ}\text{C}/\text{km}$
- (C) $12^{\circ}\text{C}/\text{km}$
- (D) $4^{\circ}\text{C}/\text{km}$

2. Which atmospheric layer contains the maximum concentration of Ozone?

- (A) Troposphere
- (B) Stratosphere
- (C) Mesosphere
- (D) Thermosphere

3. The Coriolis force is zero at which location on Earth?

- (A) Poles
- (B) Equator
- (C) Tropic of Cancer

(D) Arctic Circle

4. What is the primary greenhouse gas responsible for the natural greenhouse effect?

- (A) Carbon dioxide
 - (B) Methane
 - (C) Water vapour
 - (D) Nitrous oxide
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5. Which instrument is used to measure atmospheric pressure?

- (A) Thermometer
 - (B) Barometer
 - (C) Hygrometer
 - (D) Anemometer
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6. The Geostrophic wind represents a balance between the Coriolis force and which other force?

- (A) Gravitational force
 - (B) Frictional force
 - (C) Pressure gradient force
 - (D) Centrifugal force
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7. What is the standard unit used to measure Total Column Ozone?

- (A) Pascal
 - (B) Dobson Unit
 - (C) Parts per million
 - (D) Millibar
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8. In a tephigram, which parameters are plotted on the axes?

- (A) Pressure and Temperature
 - (B) Temperature and Entropy
 - (C) Pressure and Entropy
 - (D) Temperature and Humidity
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9. Which type of radiation is primarily emitted by the Earth's surface?

- (A) Ultraviolet radiation
 - (B) Shortwave radiation
 - (C) Longwave (infrared) radiation
 - (D) Gamma radiation
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10. The Inter-Tropical Convergence Zone (ITCZ) is characterized by which type of surface winds?

- (A) Westerlies
 - (B) Polar easterlies
 - (C) Trade winds convergence
 - (D) Jet streams
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11. What is the approximate average Albedo of the Earth?

- (A) 0.1
 - (B) 0.3
 - (C) 0.5
 - (D) 0.7
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12. Which law relates the wavelength of maximum emission to the temperature of a blackbody?

- (A) Stefan-Boltzmann Law
 - (B) Wien's Displacement Law
 - (C) Planck's Law
 - (D) Kirchhoff's Law
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13. What term describes a process where there is no heat exchange between a system and its surroundings?

- (A) Isothermal process
 - (B) Adiabatic process
 - (C) Isobaric process
 - (D) Isochoric process
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14. The ratio of the mass of water vapor to the mass of dry air is known as what?

- (A) Relative Humidity
- (B) Specific Humidity

- (C) Mixing Ratio
 - (D) Dew Point
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15. Which force is responsible for the deflection of winds to the right in the Northern Hemisphere?

- (A) Pressure Gradient Force
 - (B) Gravitational Force
 - (C) Coriolis Force
 - (D) Frictional Force
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