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Registration No.

VISIONIAS

Assignment Code

Classroom Assignment Sheet

63429

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Name:

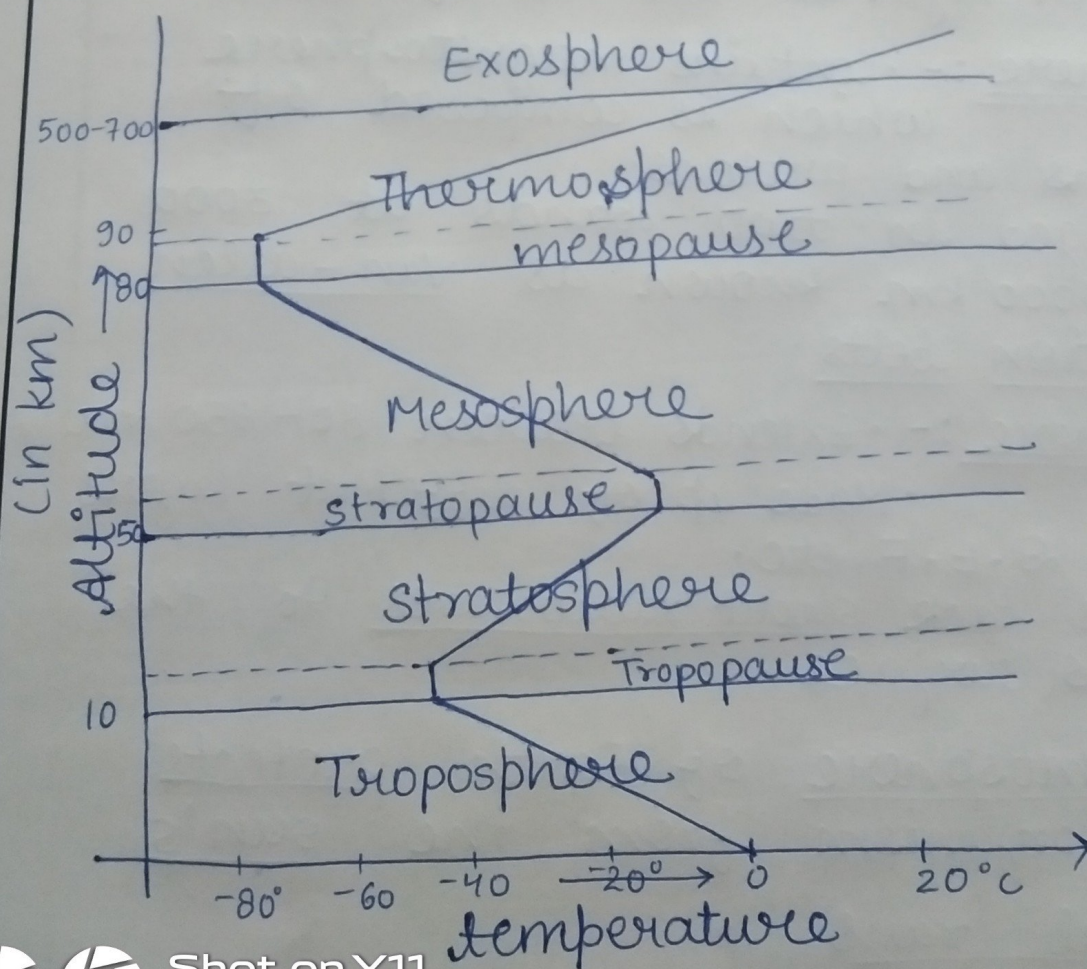
Subject: Geography Match: RB-10 Submission Date: 13/07/23 Marks:

Please mention Reg. No. and Assignment code of respective class. Use single assignment sheet (i.e. 2 pages) for 1 question. Limit your answers to 150 - 170 words.

Discuss the various vertical structure of Earth's atmosphere and explain the characteristics of each atmospheric layer.

Atmosphere is a thick gaseous envelope which surrounds the gas earth from all sides and is attached to earth by gravitational force.

Structure of Earth's Atmosphere :-



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Vivo AI camera

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## VISIONIAS

### CLASSROOM ASSIGNMENT SHEET

Troposphere :- Extends from sea-level to 16 km near tropic and 6 km poles.

- Temperature decreases at rate  $6.5^{\circ}\text{C}/\text{km}$ .
- Known as zone of turbulence or zone of convection.

Stratosphere :- It extends from tropopause to upto 50 km.

- Temperature rises in it due to absorption of UV-radiation by ozone.

Mesosphere :- It extends from stratosphere to upto 80 km.

- Temperature decreases with height.

Thermosphere :- Extends from mesopause to upto 500-700 km.

- consists of lower  $\text{N}_2$ -layer and upper oxygen layer in atomic form.

Exosphere :- Contains magnetosphere which is composed of

electrons and protons.

- Arranged in two bands at 3000 and 15000 km known as Van-Allen radiation belts.

Ionosphere :- Extends between 80-650 km.

- Made up of different layers such as D, E, F etc.
- Reflects back short radiowaves to the earth's surface.

The atmosphere of Earth protects living organism from the sun's harmful rays.

