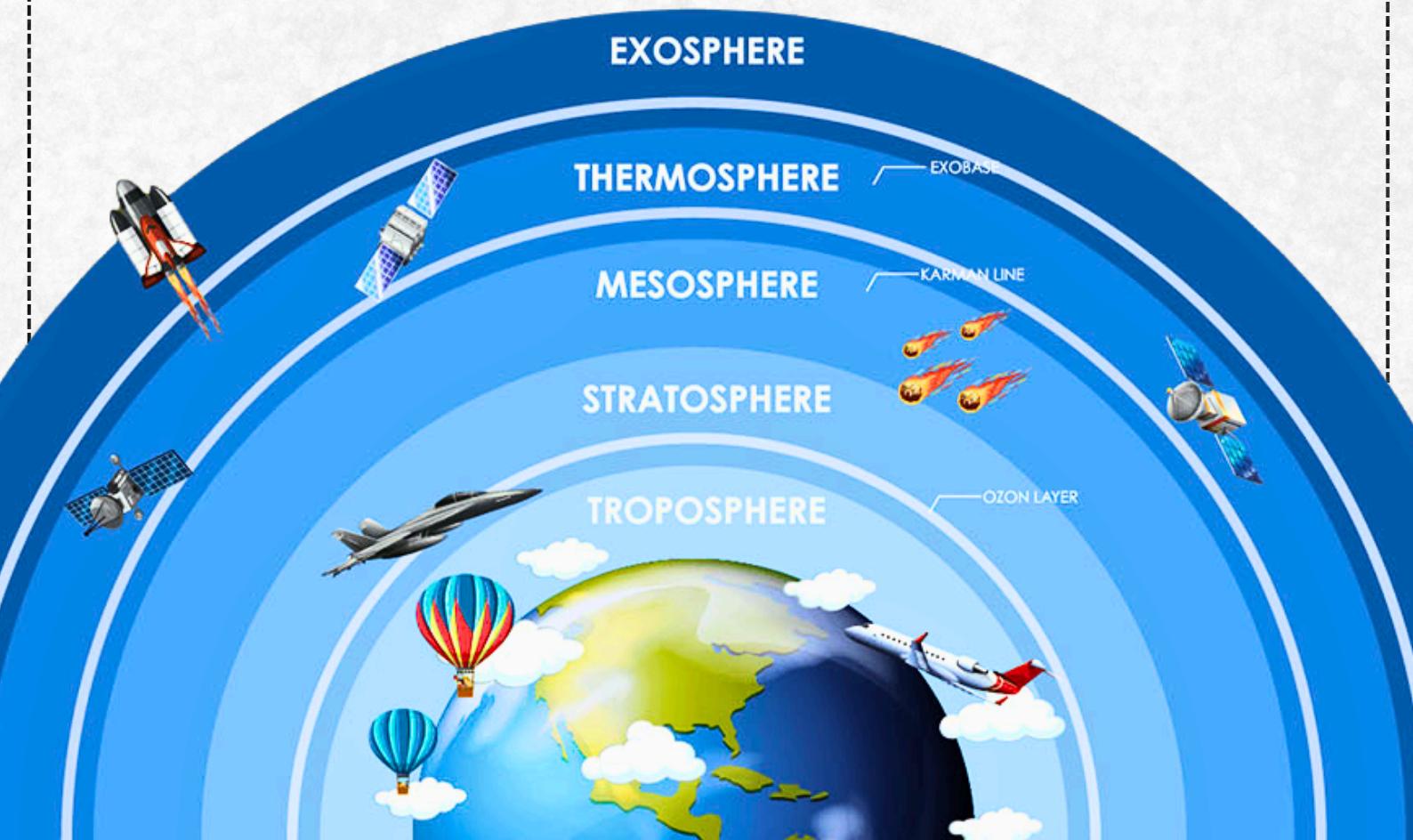




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APSC POCKET GUIDE

COMPOSITION AND STRUCTURE OF ATMOSPHERE





APSC CCE 2024

DIRECT HITS

72
—
100
QUESTIONS

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6
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8

ESSAYS

QUESTIONS

18
—
20

GS I

QUESTIONS

19
—
20

GS II

QUESTIONS

17
—
20

GS III

QUESTIONS

14
—
19

GS IV

QUESTIONS

19
—
20

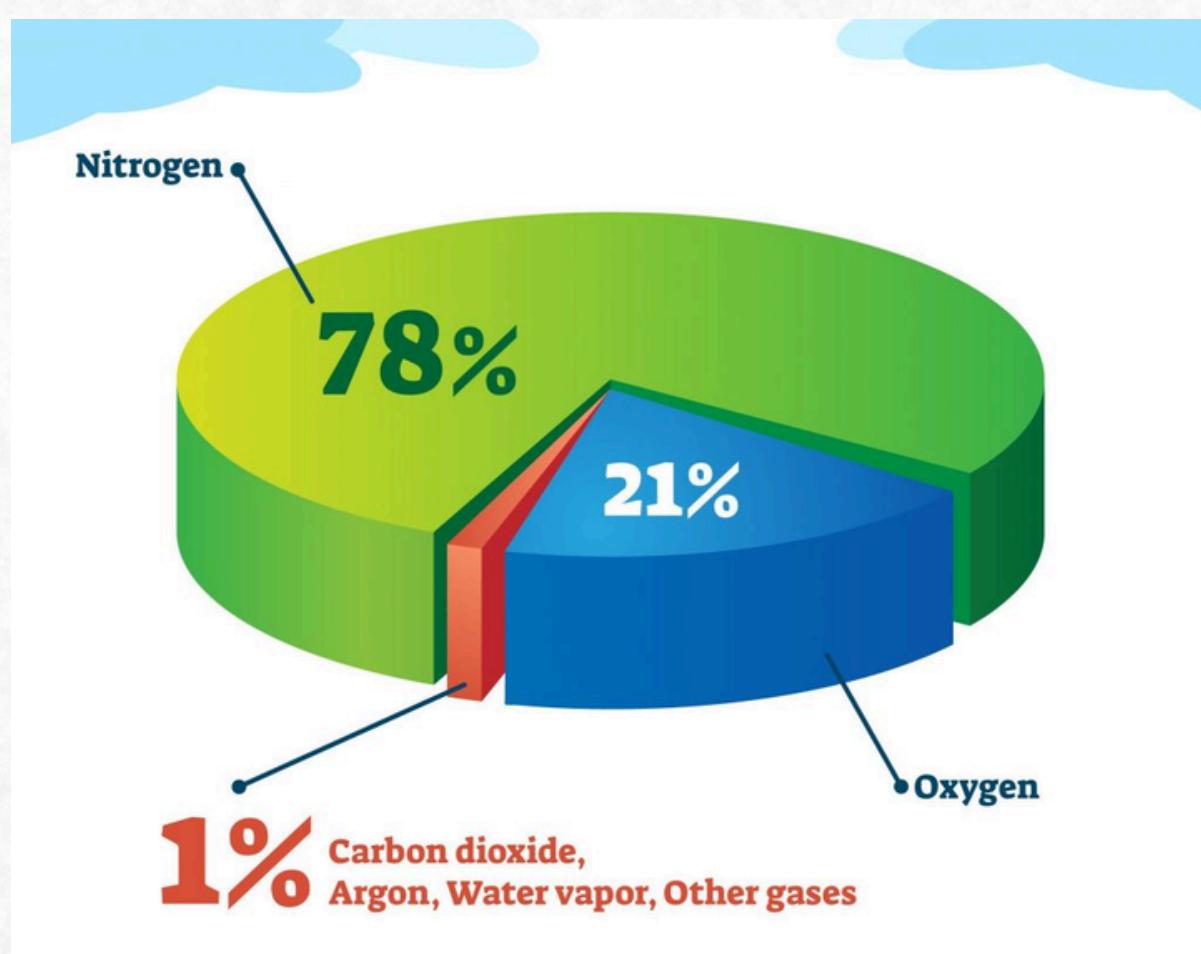
GS V

QUESTIONS

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MAINS 2024**

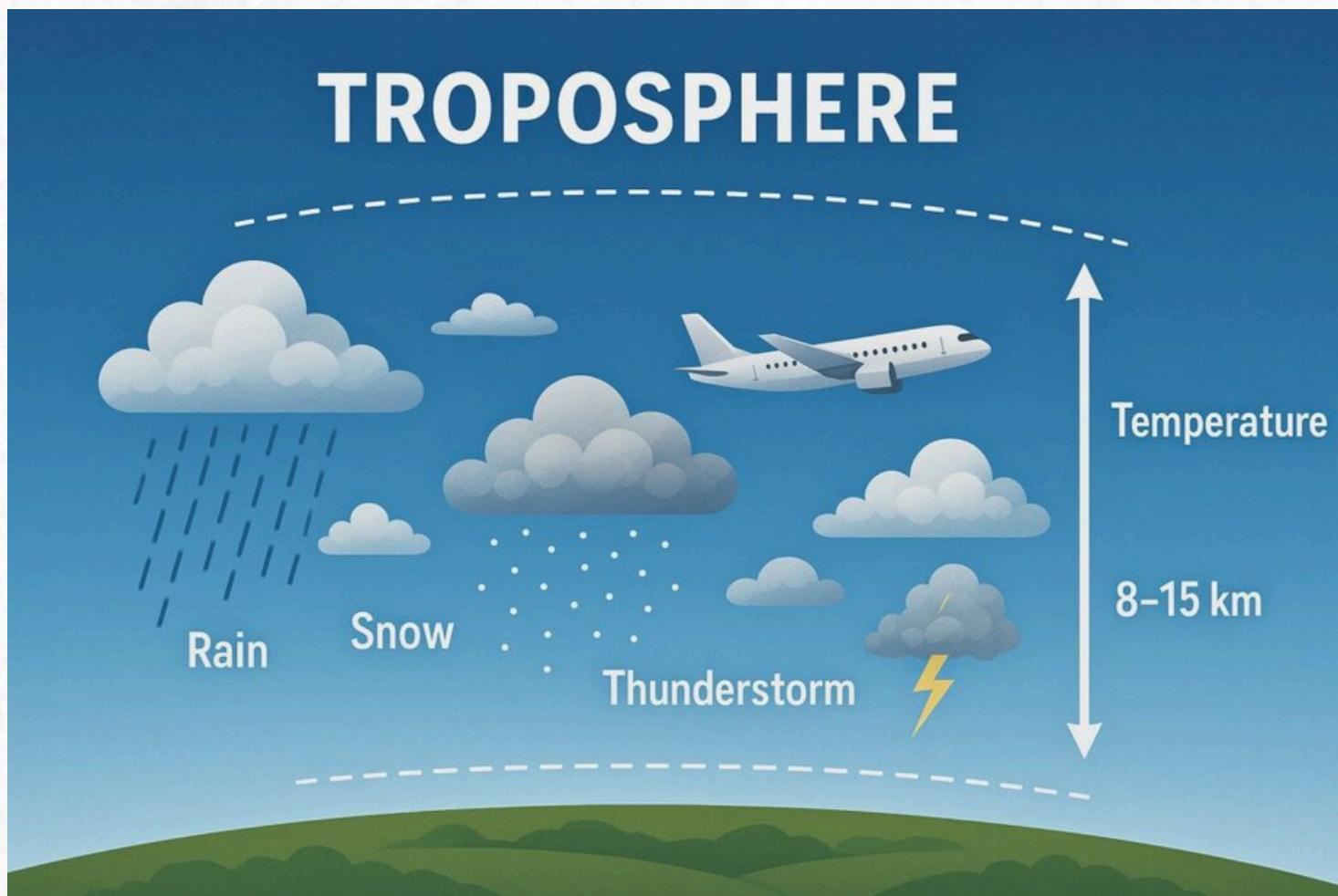
COMPOSITION OF ATMOSPHERE

- Earth's atmosphere comprises about:
 - 78 % Nitrogen
 - 21 % Oxygen
 - 0.9 % Argon
 - 0.1 % other gases
- Remaining 0.1% of gases includes:
 - A trace amount of Neon
 - Water vapour
 - Carbon dioxide
 - Methane and others



TROPOSPHERE

- It extends from Earth's surface to, on average, about 12 kilometers in height, with its height lower at Earth's poles and higher at the equator.
- The temperature in the troposphere also decreases with height.
- It is the densest atmospheric layer, most of Earth's weather happens here.





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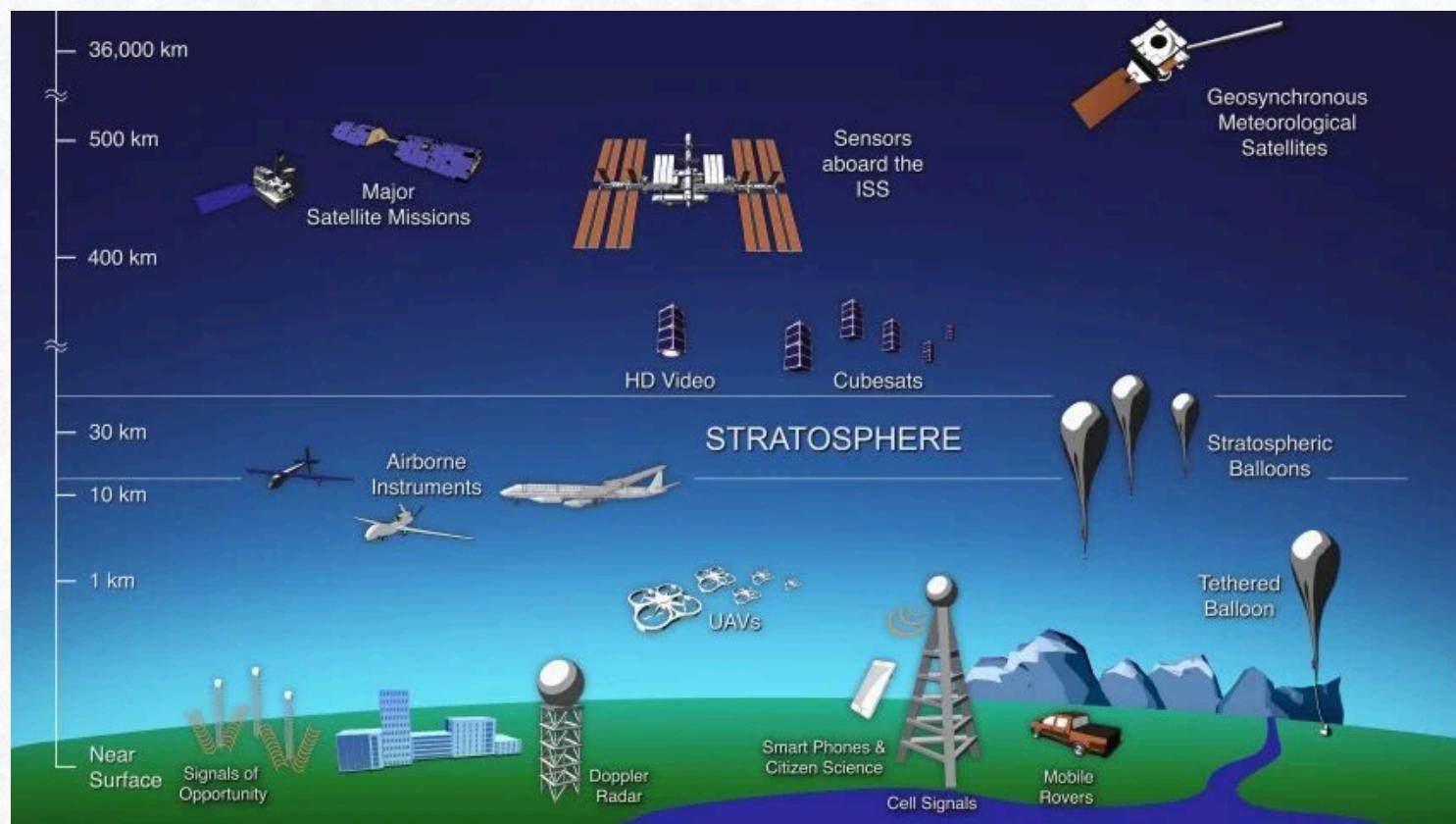
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STRATOSPHERE

- It is located between approximately 12 and 50 kilometers above Earth's surface
- Best known as home to Earth's ozone layer.
- In this region, the temperature increases with height.





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MESOSPHERE

- It is located between 50 and 80 kilometres above the surface of the Earth.
- The temperature in the stratosphere decreases with altitude
- Meteors typically burn up in this layer of the atmosphere.
- The upper boundary of the mesosphere is called the mesopause.





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THERMOSPHERE

- It is located between about 80 and 700 kilometres above Earth's surface.
- The ionosphere (between 80 and 400 km) is a part of it.
- The temperature increases with height.
- It contains ions.
- Radio waves transmitted from the earth are reflected to the earth by this layer.
- The International Space Station orbits here.



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EXOSPHERE

- Located between about 700 and 10,000 kilometres above the surface of the Earth.
- very low density, this layer does not behave like gases and allows particles to escape into space.
- The bottom of the exosphere is also called as the exobase.





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