

ATMOSPHERE - FULL MIND MAP

Topic-wise | Hinglish | SSC / BPSC / BSSC / Railway

Topics in this chapter:

1. Atmosphere & Composition of Air
2. Trees, Oxygen & Environmental Functions
3. Amazon Oxygen Claim - Exam Trap
4. Environmental Degradation & Weathering
5. Environmental Protection - Exam Framing

1. Atmosphere & Composition of Air

- Earth ko surround karne wali thin layer of gases ko atmosphere kehte hain. Near-surface dry air roughly 78% nitrogen, 21% oxygen aur 0.93% argon contain karti hai; CO₂ aur other gases trace quantity mein hote hain. [Q1]
- Air ek single element/compound nahi, balki gases ka physical mixture hai. Water vapour variable component hai. [Q2]
- Given noble gases mein radon standard bulk-atmosphere constituent ke roop mein argon, neon aur helium jaisa nahi maana jaata; radon rocks/soil mein uranium decay se naturally occurring radioactive gas hai. [Q3]
- Dry air mein nitrogen ka share approx 78.08% hota hai; exam answer 78%. [Q4]
- Atmosphere mein sabse zyada percentage nitrogen ka hai (~78.08%), oxygen ~20.95% hai. [Q5]
- Air ka largest gaseous component bhi nitrogen hi hai - oxygen, CO₂ aur hydrogen se kaafi zyada. [Q6]

2. Trees, Oxygen & Environmental Functions

- Land plants photosynthesis ke through oxygen release karte aur CO₂ uptake karte hain. Agar saare terrestrial plants/trees vanish ho jaayen to land-based photosynthetic oxygen source khatam hone se atmospheric oxygen decrease karne lagega. [Q7]
- Trees oxygen provide, air quality improve, climate moderate, water conserve, soil protect aur wildlife support karte hain. Air pollution tree ka function nahi; trees pollution reduce karne mein help karte hain. [Q8]

3. Amazon Oxygen Claim - Exam Trap

EXAM TRAP EXAM TRAP - Amazon Oxygen Claim - Exam Trap

- Question ka accepted option 20% hai, lekin source explanation clearly note karta hai ki 'Amazon produces 20% of Earth's atmospheric oxygen' wala popular claim scientifically correct nahi hai. Current photosynthetic oxygen share 20% se kaafi kam maana jaata hai aur exact value measurement par depend karti hai. [Q9]

4. Environmental Degradation & Weathering

- Environmental degradation = air, water, soil jaise resources ka deterioration/depletion + ecosystem destruction + wildlife extinction. Isliye listed sabhi effects concept ka part hain. [Q10]
- Weathering rocks/minerals ka in-place physical breakdown aur/or chemical alteration hai. Weathered material ka ek jagah se doosri jagah movement erosion kehlata hai. [Q11]

5. Environmental Protection - Exam Framing

- Is question ke exam-framing mein Sustainable Development, air-conditioning ke energy/refrigerant impacts aur paper bags environmental protection se directly linked hain; Poverty Alleviation ko primarily socio-economic goal maana gaya hai, direct environmental-protection measure nahi. [Q12]