NOTES

Air Pollution

1. WHO Air Pollution Guidelines

- The latest air-quality guidelines released by the World Health Organization (WHO) show air pollutants are harmful at much lower levels than believed so far.
- The new guidelines reflect an overwhelming scientific consensus that **countries need to more aggressively limit air pollution** and protect everyone's health.

New air quality guidelines

- The new air quality guidelines are the WHO's first update since 2005.
- The WHO has recommended minimum air-quality standards for six kinds of hazards. These
 include particulate matter (PM), ozone, nitrogen dioxide, sulphur dioxide and carbon
 monoxide.
- The exposure levels considered safe for all pollutants have been lowered.
- For PM2.5, for example, we should risk no more than 15 micrograms per cubic metre within a 24-hour period, on average, down from 25 earlier.
- For PM10, no more than 45 micrograms, down from 50.

Air Pollution and its effects

- Air pollution is the world's fourth leading cause of death, contributing to about 13 premature deaths every minute.
- The gases and tiny particles can travel deep into the lungs, enter bloodstream and damage
 the cells.
- Air pollution levels that seem low are now linked to dangerous health outcomes such as low birth weight, respiratory problems, heart disease and Alzheimer's disease.
- Exposure to even very low levels of air pollution is associated with premature death, and that there does not seem to be a safe exposure level.
- Over 90% of people worldwide are exposed to levels of PM2.5 that exceed even the old WHO guidelines.
- In some places, like India, the yearly average PM2.5 concentration is nearly 12 times higher than the new WHO levels.

Concerns / Challenges

- No country has legal air quality standards that meet the new WHO recommendations.
- Not everyone is equally protected by the existing air quality laws.
- Globally and locally, the people who bear the greatest burden of exposure to air pollution are generally those producing the least amount of air pollution.
- In the United States, the people and places most exposed to air pollution in the 1980s are still the most exposed today.

Way Forward

- Reducing the drivers of air pollution can help fight another global crisis climate change.
- Countries can improve their air quality by moving to cleaner sources of energy and cutting out fossil fuels.
- Electric vehicles can help reduce traffic-related air pollution.
- Investing in more equitable air pollution monitoring networks that capture real-time air quality levels can help recognize risks.
- Policymakers worldwide can use the new evidence-based recommendations to develop and enforce air quality policies.
- The new WHO air quality guidelines could help governments set limits on average air pollution exposure that better protect everyone's health.

