

ENVIRONMENT

June 2nd Week-

Ground level Ozone

- $\text{NO}_x + \text{VOC}$ (volatile organic compound) + **Heat & sunlight** = **Ozone**
- **Pollutants:**
 - **Primary:** directly emitted by humans
 - **Secondary:** Chemical reaction with primary pollutants in the environment produces secondary pollutants.
- It is produced in the troposphere by human activities.
- It causes respiratory diseases like asthma.
- Mainly a secondary pollutant (above formula- sunlight is necessary).

Consider the following:

1. Carbon monoxide
2. Methane
3. Ozone
4. Sulphur dioxide

Which of the above are released into atmosphere due to the burning of crop/ biomass residue?

- (a) 1 and 2 only
- (b) 2, 3 and 4 only
- (c) 1 and 4 only
- (d) 1, 2, 3 and 4

D- Whenever carbon burns- CO always emits; Sulphur also emits (bio-geo-chemical cycles); Ozone will be automatically added.

In the context of WHO Air Quality Guidelines, consider the following statements: (2022)

1. The 24-hour mean of $\text{PM}_{2.5}$ should not exceed $15 \mu\text{g}/\text{m}^3$ and annual mean of $\text{PM}_{2.5}$ should not exceed $5 \mu\text{g}/\text{m}^3$.
2. In a year, the highest levels of ozone pollution occur during the periods of inclement weather.
3. PM_{10} can penetrate the lung barrier and enter the bloodstream.
4. Excessive ozone in the air can trigger asthma.

Which of the statements given above are correct ?

- (a) 1, 3 and 4
- (b) 1 and 4 only
- (c) 2, 3 and 4
- (d) 1 and 2 only

B: 2- wrong- sunlight is necessary; 3-wrong PM_{10} can't enter the bloodstream.

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Consider the following: (2022)

1. Carbon monoxide
2. Nitrogen oxide
3. Ozone
4. Sulphur dioxide

Excess of which of the above in the environment is/are cause(s) of acid rain ?

- (a) 1, 2 and 3
- (b) 2 and 4 only
- (c) 4 only
- (d) 1,3 and 4

B

Gothenburg Protocol, 1999:

- Protocol over ground level ozone.
- Came in: 1999
- Implementation: UNECE (UN Economic Commission for Europe).
- This protocol also regulates Photochemical Smog.

Sambar Deer

- Species: Distribution (Especially India), endemism, IUCN status, programme (22 species recovery programme) or scheme, Special characteristics of species.

Sambar deer:

- Found in India and S-E Asia 🌐.
- It can live in a variety of habitats like deciduous and evergreen forests, swampy areas, grassland and coastal areas.
- IUCN: Vulnerable
- Nocturnal animal.

Consider the following fauna :

1. Lion-tailed Macaque
2. Malabar Civet
3. Sambar Deer

How many of the above are generally nocturnal or most active after sunset?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

B

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June 4th Week-

Global Financial Pact on Climate Change

- Organised by: **France**
- **Co partnership: India and Barbados**
- **Purpose:** Setting a new global financial architecture beyond the Bretton wood system to address the climate change, biodiversity crisis and developmental challenge.

With reference to the "G20 Common Framework", consider the following statements :

1. It is an initiative endorsed by the G20 together with the Paris Club.
2. It is an initiative to support Low Income Countries with unsustainable debt.

Which of the statements given above is/are correct ?

(a) 1 only
(b) 2 only
(c) Both 1 and 2

Paris club

- **22** developed countries have estb Paris club.
- It is the group of major creditor countries.
- **Estb: 1956** after Argentina debt crisis.

Bridgetown initiative

- Initiative taken by: **Barbados**
- A toolkit for reforming the global financial system which meets the needs of poorer countries.

Addis Ababa Action Agents




- **Adopted in:** 2015
- It supports the implementation of SDGs by 2030.

Debrigarh Wildlife Sanctuary

- Odisha, situated nearby Hirakud dam.

Green Credit Scheme

- Announcement: Budget 2023-24
- Ministry: MoEFCC

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