What's the Deal with Ozone?

Points 25

The assessment pre-test you all completed at the beginning of the course (and my experience teaching climate change concepts elsewhere), signals quite a bit of confusion regarding the role ozone plays in global climate change. This assignment aims to clarify that mess.

I would like you to conduct online/library research to answer the following questions:

1. What is ozone, chemically? [five lines, explain detail]

2. How is ozone good for us? (Tip: Explain the role of the ozone layer) [5 paragraphs, explain detail]

3. Describe the role of CFCs as a threat to the ozone layer. Mention the Montreal Protocol in your answer. [5 paragraphs, explain detail]

4. How is ozone bad for us? (Tip: Explain how ozone can be part of smog and ground-level pollution) [5 paragraphs, explain detail].

5. Finally, and importantly: what is the role of ozone in climate change? (Tip: This is a completely separate issue from the hole-in-the-ozone-layer problem). [5 paragraphs].

 Notes:

* The items in brackets are a suggested minimal length for each answer.
* This is college level assignment paper. Writing quality, including grammar and syntax, is at college level. The writing quality must be great.
* You will need to use library or web resources. Make sure you cite your sources in the text and in a Literature Cited section. Use a consistent format; here's a suggested one:
  + In-text example: Red-backed salamanders can lose their tail to distract and attacking predator (Smithsonian's National Zoo 2020).
  + In the Literature Cited section at the end of your paper, arrange the citations alphabetically:

Smithsonian's National Zoo. 2020. Red-backed Salamander. Conservation Biology Institute. Page accessed 2/8/2020. URL: https://nationalzoo.si.edu/animals/eastern-red-backed-salamander.

**Rubric**

| Some Rubric (1) | | |
| --- | --- | --- |
| **Criteria** | **Ratings** | **Pts** |
| This criterion is linked to a Learning OutcomeQuestion 1 | |  |  | | --- | --- | | **1.0 pts**  **Full Marks** | **0.0 pts**  **No Marks** | | 1.0 pts |
| This criterion is linked to a Learning OutcomeQuestion 2 | |  |  | | --- | --- | | **3.0 pts**  **Full Marks** | **0.0 pts**  **No Marks** | | 3.0 pts |
| This criterion is linked to a Learning OutcomeQuestion 3 | |  |  | | --- | --- | | **5.0 pts**  **Full Marks** | **0.0 pts**  **No Marks** | | 5.0 pts |
| This criterion is linked to a Learning OutcomeQuestion 4 | |  |  | | --- | --- | | **5.0 pts**  **Full Marks** | **0.0 pts**  **No Marks** | | 5.0 pts |
| This criterion is linked to a Learning OutcomeQuestion 5 | |  |  | | --- | --- | | **5.0 pts**  **Full Marks** | **0.0 pts**  **No Marks** | | 5.0 pts |
| This criterion is linked to a Learning OutcomeWriting quality: college-level English | |  |  | | --- | --- | | **2.0 pts**  **Full Marks** | **0.0 pts**  **No Marks** | | 2.0 pts |
| This criterion is linked to a Learning OutcomeResources identified in the text (see Notes above) | |  |  | | --- | --- | | **2.0 pts**  **Full Marks** | **0.0 pts**  **No Marks** | | 2.0 pts |
| This criterion is linked to a Learning OutcomeLiterature Cited section | |  |  | | --- | --- | | **2.0 pts**  **Full Marks** | **0.0 pts**  **No Marks** | | 2.0 pts |
| Total Points: 25.0 | | |