Discuss the following:

1. **Thermal inversion?**
2. **Formation and breakdown of ozone shield (only by equation).**
3. **Effects of adrenocorticotropic hormone (ACTH) on human health.**
4. **Metals fume fever.**
5. **What are your suggestions for reduced indoor bioaerosols?**
6. **Air conditioning and nasal defense mechanisms.**
7. **Asthma.**
8. **What is the impact of future global warming?**
9. **How you can reduce light pollution.**
10. **Role of hydrocarbon radicals (R) in ozone accumulation.**
11. **What are your suggestions to reduced indoor pollution?**
12. **Formation of peroxyacetyl nitrate (PAN).**
13. **Physical, chemical and biological effects of air pollutants on the human nose.**
14. **Susceptibility of an aquatic ecosystem to acid rain.**
15. **Disruption of the ecosystem by light pollution.**
16. **Major classes of air pollution-related diseases.**
17. **Cancer is an air pollutant disease.**
18. **Formation of peroxyacetyl nitrate (PAN).**
19. **Light pollution of ecosystems disruption.**
20. **How you can combat indoor air pollution?**
21. **El- Nino.**
22. **Dust pollution and their sources.**
23. **What is the impact of acid rain on environment? How you can combat their effects?**
24. **Most important steps for combat global warming.**

Fill the following blanks with correct word:

1. **Major gases that caused asphyxiation to humans are ……. and …….**
2. **Fluoride are an air pollutant that attack……..as tissues target.**
3. **Dustfall can be calculated = …….**
4. **UVA wavelength ranged from ……., while UVB have wavelength range …….**
5. **Bioaerosols particles size ranging from …… to …….µm.**
6. **Factors serving as checks on human population ……., …….. and ……..**

7. **Dust sources can be originated from……., …….. and ……..**
8. **The result of equal values between crude birth and death rates is called…….**
9. **Most air contaminants that monitor by many countries for assessment AQI are ……., ……., ……, ……. and ……..**
10. **El-Nino Spanish word mean ……, while La Nina it mean……**
11. **Selenium and chlorinated hydrocabons are an air pollutant that attack……..as tissues target.**
12. **…….. and …… are two persons who interested in human population growth.**
13. **PCBs is abbreviation of ……..**
14. **Population change= (……..) – (……..).**
15. **Major gases that caused asphyxiation to humans are …… and ……**
16. **Some examples of synthetic organic chemicals related to VOCs are ……., …….. and ……..**
17. **Light glare can be classified into……., …….. and ……..**
18. **Two main factors that focus by law in visual pollution are ……. and …….**
19. **Anthropogenic greenhouse gases in the atmosphere are ……., ……., …….. and ……..**
20. **Air pollutant that attack human liver as a target are …….. and ……...**
21. **PAHs is abbreviation of ……..**
22. **The most common air pollution diseases affecting human respiratory system are ……., …….. and ……..**
23. **Control of soil pollution have been done by 5R S which are ……., …….. ……., …… and ……..**
24. **$CH_3C(O)OO + NO_2 \longrightarrow$ …….**
25. **CoHb formed as a result of combination between..……. and …….**
26. **Complete combustion of C_2H_4 produce ……. , while incomplete ……. combustion produce**
27. **Anthropogenic greenhouse gases in the atmosphere are ……. , ……. , ……. , and …….**
28. **Thyroid gland is target for air contaminants such as ……. and ……. .**
29. **Effects of air pollutants on nose depended on ……. , ……. , and ……. .**
30. **……. and ……. are examples of secondary pollutant**
31. **$Cl + O_3 \longrightarrow$ ……. .**
32. **The functions of alveolar macrophages are ……. , ……. and …….**

33. ……. terms refers to dust disease.
34. ……. and ……. are types of thermal inversion.
35. The most common air pollution diseases affecting human respiratory system are ……. , ……. and ……. .
36. RO_2+NO ⟶ ……. , while 2NO+O_2 ……. .
37. Population change = (…….) – (…….).
38. Painful loudness for human ear is ……. db while in library it reaches ……. db.
39. ……. and ……. are the most poisons gases affected human health.

Illustrate one of the following by sketching

1. **El- Nino, La- Nina and normal condition.**
2. **Airborne transmission indoor and the general governing flows of droplet dispersion nuclei.**
3. **Air pollution defense mechanisms in the human body.**
4. **Formation of ozone in troposphere and role of hydrocarbon radicals in ozone accumulation.**

Count only the following:

1. **The EPA major types of air pollutants**
2. **The problems of overpopulation**
3. **The features covered by visual pollution.**
4. **Sources of dust pollution.**
5. **The problems of overpopulation**
6. **Control noise pollution.**
7. **Impacts of air pollution on man and environment.**
8. **Major EPA types of air pollutants.**
9. **Anthropogenic greenhouse gases in atmosphere.**

Define the following:

1. Overpopulation 2. Discomfort glare 3. ZPG 4. Air quality index 5. Light clutter 6. Global cooling 7. Metal fume fever 8. Graffiti 9. Ozone hole 10. Threshold shift of noise pollution 11. Dust 12. Silicosis. 13. Bronchitis 14. Alveolar macrophage 15. Air quality index 16. Mist 17. Black lung 18. Visual clutter 19. Secondary pollutants 20. Tagger

21. Malthus hypothesis 22. UVB 23. Visual pollution 24. Acid rain 25. Light pollution 26. Population size 27. Thermal inversion 28. Systematic toxins 29. Asthma 30. Secondary pollutant 31. PAN 32. Emphysema 33. Climate changes 34. Planetary albedo 35. Indoor pollutant 36. Thermal inversion

Write the differences between the following:

1. Climate changes and global warming.

2. Malthus and Marx's differing views on excess population growth.

3. El Nino and La Nina

4. Air quality and air quality index

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