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**Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 20.**

**I Choose the correct alternative:**

1. \_\_\_\_\_ pollutants are emitted directly from identifiable sources. [     ]  
 a) Secondary                      b) Tertiary                      c) Primary                      d) Observable
  
2. With the passage of the federal \_\_\_\_\_ Act, as amended in 1970, major strides were made in reducing air pollution. [     ]  
 a) Environmental Protection              b) Anti-Pollution              c) Health & Welfare              d) Clean Air
  
3. Which one of the following is NOT a primary pollutant? [     ]  
 a) Sulfur Dioxide              b) Carbon Monoxide              c) Sulfuric Acid              d) Particulate Matter
  
4. The source of nearly half our pollution (by weight) is from the \_\_\_\_\_ category. [     ]  
 a) Transportation              b) Stationary source fuel combustion              c) Industrial processes              d) Agricultural
  
5. A pH of 4 is \_\_\_\_\_ times more acidic than a pH of 5. [     ]  
 a) 5                      b) 10                      c) 50                      d) 100
  
6. Which of these reactions in the atmosphere leads to acid rain? [     ]  
 a) Magnesium + oxygen  $\rightarrow$  magnesium dioxide                      b) Sulphur + oxygen  $\rightarrow$  sulphur dioxide  
 c) Carbon dioxide + hydrogen  $\rightarrow$  hydrogen carbonate                      d) Sulphur dioxide + water  $\rightarrow$  sulphuric acid
  
7. Dissolved pollutant gasses can form: [     ]  
 a) Ozone                      b) Acid rain                      c) Alkali snow                      d) Neutral hail
  
8. The greenhouse effect is where: [     ]  
 a) Heat energy is trapped by the atmosphere                      b) Too many buildings are built from glass  
 c) Solar panels are attached to the roofs of houses                      d) You take gardening too seriously
  
9. Global warming will not result in: [     ]  
 a) Melting of the ice caps                      b) Increasing sea levels  
 c) Increasing the size of the hole in the ozone layer                      d) Unpredictable climate patterns
  
10. Sulphur dioxide levels can be reduced by using: [     ]  
 a) Catalytic converters                      b) Static electricity to attract it in factory chimneys  
 c) More efficient car engines                      d) Low sulphur fuels

## II Fill in the blanks:

11. Summer smog also know as \_\_\_\_\_
12. Sulphur dioxide levels can be reduced by using \_\_\_\_\_
13. Both gaseous and particulate air pollutants can have negative effects on \_\_\_\_\_
14. Most common technique to analyze gaseous pollutants is \_\_\_\_\_
15. \_\_\_\_\_ generates a wide range of harmful chemicals and is a major cause of ill health
16. \_\_\_\_\_ in the air is caused due to the rise in combustion of fossil fuels
17. \_\_\_\_\_ causes breathing problems
18. Wind speed affects the \_\_\_\_\_ rise
19. The plume is being computed through the use of a \_\_\_\_\_ dispersion model
20. \_\_\_\_\_ is increase in the average temperature of earth's atmosphere and oceans

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