

NAME:		ROLL NO:		TIME:	50: MIN
SUB:	Chemistry	Date:		CLASS:	1 st Year
SYLLABUS	Chp. 14 (Atmosphere)	T. MARKS	30	OBT. M	

Q. 1 Choose the Correct Answer. Cutting, Erasing, Double Selection is Strictly Prohibited. (1x6=6)

- A key component that distinguishes photochemical smog from industrial smog is the presence of:**
 (A) High concentrations of sulfur dioxide
 (B) A significant amount of ozone and other photochemical oxidants like PAN
 (C) Reduced visibility due to fog and smoke particles
 (D) Formation primarily during the early morning hours
- Primary pollutants like nitrogen oxides (NO_x) and volatile organic compounds (VOCs) react in the presence of sunlight to form a key component of photochemical smog, which is a:**
 (A) Primary pollutant
 (B) Secondary pollutant
 (C) Naturally occurring atmospheric gas
 (D) Harmless byproduct of combustion
- Acid rain is primarily caused by the release of which of the following gases into the atmosphere?**
 (A) Carbon dioxide (CO₂) and methane (CH₄)
 (B) Sulfur dioxide (SO₂) and nitrogen oxides (NO_x)
 (C) Chlorofluorocarbons (CFCs) and halons
 (D) Ozone (O₃) and carbon monoxide (CO)
- An AQI value between 51 and 100 typically indicates which level of air quality?**
 (A) Good
 (B) Moderate
 (C) Unhealthy
 (D) Fatal
- Which gas causes yellow color in photochemical smog?**
 (A) CO
 (B) SO₃
 (C) NO₂
 (D) SO₂
- Which particulate matter size is considered the most harmful to human health?**
 (A) PM 10.0
 (B) PM 5.0
 (C) PM 2.5
 (D) PM 1.0

PART-I

Q. 2 Write Short Answers of the Following Questions (2x8=16)

- Discuss the use of catalytic convertor (CC) in cars.
- Write down the differences between primary and secondary pollutants.
- How do volatile organic compounds (VOC) affect air quality?
- How chlorofluorocarbons (CFCs) effect ozone?
- Identify and briefly explain three major natural sources of air pollutants.
- How can deforestation impact air quality?
- Write two measures to control air pollutions?
- What is AQI? How does it measure air quality?

PART-II

Write Answers of the Following Questions in Detail.

- Q. 3 (a) Discuss the four layers of atmosphere. 4
 (b) Write a detailed note on smog and acid rain. 4



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1ST YEAR REVISION & TEST SESSION



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Answer Key

1	B	2	B	3	B	4	B
5	C	6	C				