

Date Planned : __ / __ / __	Daily Tutorial Sheet-4	Expected Duration : 90 Min
Actual Date of Attempt : __ / __ / __	Level-1	Exact Duration : _____

31. Which of the following would reduce the rate of global warming ?
(A) minimising the use of automobiles **(B)** increasing the use of automobiles
(C) burning of dry leaves, wood etc **(D)** deforestation
32. The pH of normal rain water is :
(A) 6.5 **(B)** 5.0 **(C)** 5.6 **(D)** 6.0
33. Normal rain water has a pH of 5.6 due to the presence of H^+ ions formed by the reaction of rain water with :
(A) CO **(B)** CO₂ **(C)** SO₂ **(D)** O₃
34. Rain water is called ACID RAIN when its pH :
(A) drops below 4.5 **(B)** drops below 6.5
(C) becomes greater than 6.5 **(D)** drops below 5.6
- *35. Which of the following gases after oxidation and reaction with water are major contributors to acid rain ?
(A) SO₂ **(B)** NO₂ **(C)** O₃ **(D)** CO
36. Aerosol particles of oxides or ammonium salts in rain drops results in :
(A) wet-deposition **(B)** dry-deposition **(C)** Both A & B **(D)** None of the above
37. SO₂ is absorbed directly on both solid and liquid ground surfaces and is thus deposited as :
(A) wet-deposition **(B)** dry-deposition **(C)** Both A & B **(D)** None of the above
- *38. Acid rain :
(A) is beneficial for agriculture, trees & plants as it provides extra nutrients
(B) causes respiratory ailments in human beings and animals
(C) affects the aquatic ecosystem when it reaches the rivers, lakes etc.
(D) corrodes water pipes resulting in the leaching of heavy metals such as iron, lead and copper into the drinking water.
39. Catalytic converters are used in cars to reduce the effect of exhaust fumes on the atmosphere. Which of the following statements regarding them are true ?
I. The main component of the converter is a ceramic honeycomb coated with precious metals - Pd, Pt and Rh.
II. The exhaust gases containing unburnt fuel, CO and NO_x, when pass through the convertor at 573K, are converted into CO₂ and N₂.
(A) Only I **(B)** Only II **(C)** I and II **(D)** None of the above
40. Acid rain reacts with the marble of Taj Mahal causing damage to the monument. The equation for this reaction is :
(A) $CaO + CO_2 \longrightarrow CaCO_3$ **(B)** $CaCO_3 \longrightarrow CaO + CO_2$
(C) $CaO + H_2O \longrightarrow Ca(OH)_2$ **(D)** $CaCO_3 + H_2SO_4 \longrightarrow CaSO_4 + H_2O + CO_2$