





Date Planned : __ / __ / __	Daily Tutorial Sheet-3	Expected Duration : 90 Min
Actual Date of Attempt : __ / __ / __	Level-1	Exact Duration : _____

31. Which compound does not has S – S bond ? 
(A) $\text{Na}_2\text{S}_2\text{O}_4$ **(B)** $\text{Na}_2\text{S}_4\text{O}_6$ **(C)** $\text{Na}_2\text{S}_2\text{O}_3$ **(D)** $\text{Na}_2\text{S}_2\text{O}_7$
32. Oleum is chemically :
(A) H_2SO_3 **(B)** H_2SO_4 **(C)** $\text{H}_2\text{S}_2\text{O}_7$ **(D)** $\text{H}_2\text{S}_2\text{O}_8$
33. Which element is not considered as 'chalcogens' ?
(A) Selenium **(B)** Oxygen **(C)** Sulphur **(D)** Polonium
34. The element evolving two different gases on reaction with conc. Sulphuric acid is :
(A) P **(B)** C **(C)** Hg **(D)** S
35. Select the incorrect statement among the following :
(A) O_3 is used as germicide for purification of air
(B) In O_3 , O – O bond length is identical with that of molecular oxygen
(C) O_3 molecule is angular in shape
(D) O_3 is an oxidizing agent
36. Which is correct for ozone ?
(A) Decomposition of ozone is endoergonic
(B) Ozone depletion at stratosphere occurs due to attack of free radicals
(C) Ozone can oxidise fluorine
(D) Formation of ozone is favourable at earth surface
37. H_2S is not a/an :
(A) Reducing agent **(B)** Acidic
(C) Oxidizing agent **(D)** None of these
38. Which among the following statements are correct ? 
(I) Carbon monoxide is neutral whereas SO_3 is acidic.
(II) Potassium oxide is basic whereas nitrous oxide is acidic.
(III) Aluminium and zinc oxides are amphoteric.
(IV) Sulphur trioxide is acidic whereas phosphorus pentoxide is basic.
(V) Carbon dioxide is neutral whereas Sulphur dioxide is amphoteric.
The correct choice is :
(A) (II) and (III) **(B)** (I) and (IV) **(C)** (I) and (III) **(D)** (II) and (IV)
39. Which of the following is not a peroxy acid ? 
(A) Perphosphoric acid **(B)** Pernitric acid
(C) Perdisulphuric acid **(D)** Perchloric acid
40. Oleum is :
(A) Castor oil **(B)** Oil of vitriol **(C)** Fuming H_2SO_4 **(D)** None of these

41. The catalyst used in the manufacture of H_2SO_4 by contact process is :
 (A) V_2O_3 (B) V_2O_5 (C) FeO (D) Cu
42. SO_2 does not act as :
 (A) Bleaching agent (B) Oxidising agent
 (C) Reducing agent (D) Dehydrating agent
43. Which one is true peroxide ?
 (A) NO_2 (B) MnO_2 (C) BaO_2 (D) SO_2
44. $\text{SO}_2 + \text{H}_2\text{S} \rightarrow$ product. The final product is :
 (A) $\text{H}_2\text{O} + \text{S}$ (B) H_2SO_4 (C) H_2SO_3 (D) $\text{H}_2\text{S}_2\text{O}_3$
45. Which of the following has – O – O – linkage ? 
 (A) $\text{H}_2\text{S}_2\text{O}_6$ (B) $\text{H}_2\text{S}_2\text{O}_8$ (C) $\text{H}_2\text{S}_2\text{O}_3$ (D) $\text{H}_2\text{S}_4\text{O}_6$