

APOLLO

Nitrogen and Sulphur

FBISE Chemistry Class 11 (HSSC-I)

Domain C: Inorganic Chemistry

10 questions | questions

Original FBISE question crops. National Curriculum 2022-23 topic.

34.	Which of the following correctly represents an important industrial use of sulfur compounds?	Used only in making plastics and glass	Used to neutralize acids in water treatment	Used as a fuel in automobiles	Used in fertilizers & gunpowder
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52.	In the formation of photochemical smog, Peroxyacetyl Nitrate (PAN) is produced when:	NO reacts directly with ozone	Hydrocarbon s react with NO to form PAN	Peroxyacetyl radicals formed from hydrocarbons combine with NO ₂	Sunlight directly converts NO ₂ into PAN
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9.	Peroxyacetyl nitrate (PAN) is formed by the reaction of oxides of nitrogen with:	Oxides of sulphur	Hydrogen sulphide	Oxides of phosphorus	Unburned hydrocarbons	☐	☐	☐	☐
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(x)	Describe the use of compounds of sulphur in any three chemical industries.	03	OR	State Markonikoff's rule by giving an example and its mechanism.	1x3
(xi)	Calculate the volume occupied by 3.011×10^{24} molecules of NH ₃ gas enclosed in a container at STP.	03	OR	How is Ethanol prepared from an/a: a) Alkene b) Alkyl halide c) Carboxylic acid	03

OR	What is the Photo chemical smog? Briefly describe its formation.	1+2
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OR	Briefly explain any three uses of sulphur in industry or in daily life.	03
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	Explain the role of NO _x in the formation of Peroxyacetyl nitrate (PAN) with chemical reactions.	03
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	Explain the role of NO and NO ₂ in the formation of peroxyacetyl nitrate (PAN), with equations.	03	OR	Give all of the possible reactions among free radicals in termination step of methane and chlorine.	1.5 + 1.5
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(vii)	Give role of NO _x in the formation of PAN (Peroxyacetyl nitrate). Explain with chemical reactions.	1+2
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(xiv)	Briefly explain three uses of sulphur compounds.	03	OR	Describe the relative thermal stabilities of hydrogen halides in terms of bond strengths.	03
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