

APOLLO

Polymers

FBISE Chemistry Class 12 (HSSC-II)

Domain E: Organic Chemistry

14 questions | questions

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

(ii)	How can nylon-6,6 be prepared from Hexandioic acid ? Give complete chemical reaction. Also mention type of polymerization.	02 + 01
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OR	Write at least three repeating unit of the polymer formed from the monomer $\text{CH}_2=\text{CHCl}$, and classify it as either an addition polymer or a condensation polymer.	03
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Differentiate between addition and condensation polymers with suitable example in each.	03
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Which polymer is formed by condensation reaction?	Polystyrene	Polyethylene	Nylon	PVC
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Differentiate between condensation and addition polymerization.

Write the chemical equation for the polymerization process of PVC from vinyl chloride. State the type of polymerization involved.

(x)	Differentiate between addition and condensation polymerization.
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Which monomers undergo condensation polymerization?	Vinyl chloride	Amino acids	Ethene	Propene
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(xi)	Differentiate between addition and condensation polymers.	1.5 + 1.5
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~~Q. $\text{TiCl}_3 + \text{H}_2 \rightarrow \text{TiCl}_2 + \text{H}_2$~~			
Compare the arrangement of d-orbitals in octahedral and tetrahedral complexes. (Support your answer by drawing their diagrams of d-d splitting pattern).	3.5 + 3.5	OR	Write the chemical equations for the preparation of Nylon-6,6 and Kevlar. (Use the following monomers: benzene 1,4dioic acid, benzene 1,4-dicarboxylic acid, adipic acid, hexamethylene diamine).
~~Justify the following order of acidic strength by~~			~~State two factors that affect the basic strength of~~

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~~instrumentation and working.~~		
Q.4	Differentiate between addition and condensation polymers with suitable examples. Also, write the chemical equation for the preparation of Nylon-6,6.	4+3
Q.5	Write chemical reactions to explain the basic nature	

- iv. How can nylon-6,6 be prepared from Adipic acid ? Give complete chemical reaction.
(1+2)