

INDIAN SCHOOL DARSAIT DEPARTMENT OF CHEMISTRY



Subj	ect: Chemistry Topic : Polym	ners	Date of Worksheet: 29.5.2019	
Reso	Resource Person: SREEKALA M Date of Submission:			
Nam	ne of the Student: Class	ss &Division: XII	Roll Number:	
1.	What is the repeating structural unit in poly	ythene polymer?		1
2.	What are addition polymers? How are the other? Give one example of each type.	two types of addition	on polymers different from each	2
3.	i) Novolac and Bakelite (structure ii) Buna-S and Terylene (intermod	e)		2
4.	Distinguish between the terms 'homopolyn type.	ner' and 'copolyme	er' and give one example of each	2
5.	Write: a) Reaction involved in the preparation b) Monomer unit of synthetic rubber (c) One use of Nylon-6,6		polyester	3
6.	Define the terms Elastomers and Fibres an	d give one example	e of each.	2
7.	Write the monomers used and one use for (i) Terylene ii) Neoprene iii) Ny		ng	3
8.	Identify the four groups into which the pol intermolecular forces present in them. To v belong?	-	<u> </u>	3
9.	Differentiate between the modes of format Give one example of each of these formati		ymer and a condensation polymer.	3
10.	Write names of monomer/s of the following condensation polymers. a)Teflon b) Bakelite c) Natural rubber	g polymers and cla	ssify them as addition or	3

11.	 a) Identify aliphatic biodegradable polyester which is used in packaging and orthopedic devices. i) Write its full form. ii) Give the structures of monomers from which it is formed. iii) Show the formation of polymer. b) Write the name and structure of the monomer of nylon-6 		
12.	Mention two important uses of each of the following polymers: i) Bakelite ii) Nylon6,6 iii) PVC		
13.	a)What does the designation '6,6' in Nylon 6,6, polymer mean? b)Which polymer is obtained when free radical polymerization of chloroprene occurs? Write the structure of the polymer thus obtained.		
14.	a)What is the role of Benzoyl peroxide in polymerization of ethene? b)What are LDPE and HDPE? How are they prepared? Write the structural difference between LDPE and HDPE?		
15.	Distinguish between Chain growth (Addition) polymerization and step growth (Condensation) polymerization and give one example of each process.		
16.	Write the names of monomers of the following polymers:	3	
17.	Arrange the following polymers in increasing order of their intermolecular forces. (i) Nylon 6,6, Buna-S, Polythene. (ii) Nylon 6, Neoprene, Polyvinyl chloride.	3	