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	PREPARED BY AMULYA KUMAR SAMAL,PGT(CHEMISTRY),PH NO-7381884606 PRACTICE TEST PART-A (BIOMOLECULES)(4)	<u> </u>
1	PRACTICE TEST PART-A (BIOMOLECULES)(4) Name the type of bonding which stabilizes α-helix structure of proteins?	
-	Name the deficiency diseases caused due to lack of vitamin B ₁ , & B ₁₂	-
2	Name the two components of starch. How do they differ from each other Structurally?	-
3	What are essential and non essential amino acids? Give examples of each type?	-
4	Write a note on zwitter ion.	<u> </u>
5		-
6	Distinguish between the following: Fibrous &Globular proteins?	-
7	Write a note on Denaturation of proteins? Write the important differences between DNA and RNA?	-
8	-	-
9	An optically active amino acid (A) can exist in three forms depending on the pH of the medium. If the molecular formula of (A) is C ₃ H ₇ NO ₂ write	
	(i) Structure of compound (A) in aqueous medium. What are such ions called?	
	(ii) In which medium will the cationic form of compound (A) exist?(iii) In alkaline medium, towards which electrode will the	
	compound (A) migrate in electric field?	<u> </u>
10	How are vitamins classified?	<u> </u>
11	(i) Write two main functions of carbohydrates in plants. (ii)What do you understand by the term glycosidic linkage?	
12	Distinguish between the α-helix and β-sheet proteins:	
13	Name the deficiency diseases caused due to lack of vitamin A,C, D,E,B ₂ , B ₆ &K?	
14	Write the reactions when D-Glucose reacts with following:	
	(a)Hydrocyanicacid,HCN (b)Tollens reagent (c)HI (d)Conc.HNO ₃ (e)Hydroxlamime(f)Bromine	
15	(a) How are carbohydrates classified on the basis of their behaviour on hydrolysis?.	
	(b) Why cannot Vitamin C be stored in our body	
	(c) What are different types of RNA found in the cell? PART-B POLYMERS(3)	
16	(*)	
16	Write the name and structure of one of the common initiators used in free radical polymerization?	
17	What do you by Biodegradable polymers? Give two examples.	
18	Give difference between the Thermoplastic polymers. & Thermosetting polymer?	-
19	Distinguish between Homopolymers and copolymer?	-
20	Give difference between the Addition & Condensation Polymerization.	
21	Explain the difference between Buna-S and Buna-N.	
22	Discuss the mechanism of free radical polymerization of ethene?	-
23	Write the structure of monomer and polymer of (a) Nylon 6, 6 (b) Nylon 6?	
24	Write the structure of monomer and polymer of Dacron (Terylene) & Glyptal.	
25	Write the structure of monomer and polymer of (a) Bakelite (b) Melamine-Formaldehyde polymer	
26	Write the structure of monomer and polymer of (a)Teflon (b) Polystyrene (c) PVC	-
27	Write the structure of monomer and polymer of Natural rubber &Neoprene	-
28	(a) Define the term polymerisation. (b) Write the structure of monomer and polymer of PHBV.	
	(c) Discuss the main purpose of vulcanization of rubber.	
29	(a) Classify the following as addition and condensation polymers	
	Terylene, Bakelite, Polyvinyl chloride, Polythene.?.	
	(b) Arrange the following polymers in increasing order of their intermolecular forces. (i) Nylon 6,6, Buna-S, Polythene. (ii) Nylon 6, Neoprene, Polyvinyl chloride.	
	(c)In which classes, the polymers are classified on the basis of molecular forces?	
	PART-C CHEMISTRY IN EVERYDAY LIFE(3)	\vdash
30	What is tincture of iodine? What is its use?	\vdash
31	Define the following a) Anionic detergents b) Limited spectrum antibiotics c) Antiseptics d) Antacids e) Narrow spectrum	
	antibiotics, f) Cationic detergents g) Broad spectrum antibiotics h) Tranquilizers	
32	What are the Constituents of dettol.	
33	Define the following terms giving suitable examples : (i) Artificial sweetening agents (ii) Food Preservatives.	
34	Why is the use of aspartame limited to cold drinks and foods?	
35	Name a substance which can be used as an antiseptic as well as disinfectant.	
36	(i) Name the macromolecules that are chosen as drug targets (ii) What are antagonists and agonists?	
37	(i) Name a broad spectrum antibiotic and state two diseases for which it is prescribed (ii) What is the role of bithional in toilet	
20	soaps?	<u> </u>
38	(a) While antacids and ant allergic drugs interfere with function of histamines, why do these not interfere with the function of each other.	
	(b) Why are cimetidine and rantidine better antacids than NaHCO 3, Mg (OH)2, Al(OH)3?.	
39	Explain the following terms with suitable examples: (a) Cationic detergents (b) Anionic detergents (c) Non-ionic detergents	
40	Point out the differences between Broad spectrum & narrow spectrum antibiotics.	

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