

Model Question Paper-1 with effect from 2019-20 (CBCS Scheme)

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Fourth Semester B.E. Degree Examination Subject Title: Chemical Technology-II (18CH43)

TIME: 03 Hours

Max. Marks: 100

Note: 01. Answer any **FIVE** full questions, choosing at least **ONE** question from each **MODULE**.

Module -1			*Bloom's Taxonomy Level	Marks
Q.01	a	Describe Hydrogenation of oils, with neat sketch.	L2	10
	b	Describe different types of waxes, with their applications.	L1	5
	c	What is the main composition of vegetable oil and animal fat explain with examples and applications.	L1	5
OR				
Q.02	a	How do you differentiate soaps and detergents explain their method of production.	L2	8
	b	With neat process flow diagram explain the method of production of soap, list all the chemical reactions and raw material involved in the process.	L2	12
Module-2				
Q. 03	a	Explain the production of sugar from sugarcane; discuss the chemical reactions and economics involved in the process.	L2	12
	b	Describe briefly: i) Dextrin ii) Dialdehyde starch.	L1	8
OR				
Q.04	a	Explain the parameters that affect fermentation process.	L2	15
	b	Enumerate the production of ethyl alcohol from molasses.	L2	5
Module-3				
Q. 05	a	What are chemical compositions of petroleum or crude oil?	L1	8
	b	Discuss the importance of refinery products of petroleum refining industry with example.	L2	12
OR				
Q. 06	a	Write about unit operations involved in petroleum refinery products.	L1	10
	b	Describe the production of LPG.	L2	10
Module-4				
Q. 07	a	Explain the origin and classification of the coal.	L1	08

	b	With neat flow diagram explain the destructive distillation of coal.	L2	12
OR				
Q. 08	a	Explain the production of wood pulp by Kraft process and discuss the major engineering problems involved with the process.	L2	15
	b	Explain the method of manufacture of structural boards	L2	05
Module-5				
Q. 09	a	How do you classify polymers? Explain with examples	L1	10
	b	Explain the method of production of PVC, list the properties and applications.	L2	10
OR				
Q. 10	a	Explain production of urea formaldehyde, list the properties and applications.	L2	12
	b	Discuss about Natural rubber and process of vulcanisation.	L1	08

*Bloom's Taxonomy Level: Indicate as L1, L2, L3, L4, etc. It is also desirable to indicate the COs and POs to be attained by every bit of questions.