

THE KAVERY ENGINEERING COLLEGE*(An Autonomous Institution)***B.E/B.TECH DEGREE END SEMESTER THEORY EXAMINATIONS, APRIL-MAY 2025***Third Semester**Chemical Engineering***CH3303 - Chemical Process Industries***Regulations - 2021***Duration: 3 Hrs****Maximum: 100 Marks****PART – A (ANSWER ALL QUESTIONS) (Marks 10*2=20)**

Q.No	Questions	BLT	CO	Marks
1.	What is Soda ash?	L1	1	2
2.	Write down the overall reaction for Solvay- Ammonia-soda process.	L1	1	2
3.	Distinguish between contact process and chamber process.	L2	2	2
4.	Write the raw materials and uses of sulphuric acid.	L1	2	2
5.	Write the Application of refractory material.	L1	3	2
6.	Define wax.	L2	3	2
7.	Define Soap.	L1	4	2
8.	Write about Phosphate rock beneficiation.	L1	4	2
9.	Classify fertilizers.	L2	5	2
10.	What are the raw materials of ammonium nitrate and mention its uses.	L1	5	2

PART – B (ANSWER ALL QUESTIONS) (Marks 5*16 = 80)

Q.No	Questions	BLT	CO	Marks
11.	a Discuss the manufacture of cement. Explain the uses of cement.	L3	1	16
	Or			
	b Explain the steps for manufacture of sulfuric acid in detail.	L2	1	16
12.	a Draw the flow sheet and describe the production of urea?	L3	2	16
	Or			
	b Explain the manufacture of phosphoric acid with a neat sketch.	L2	2	16
13.	a Discuss in detail about manufacture of sugar with neat sketch.	L3	3	16
	Or			
	b Discuss in detail about the production process of starch with neat sketch.	L2	3	16

14.	a	Describe in detail about the production of petroleum refining products.	L3	4	16
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Or

	b	Explain the manufacturing process of benzene in detail.	L3	4	16
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15.	a	Discuss in detail about the manufacture of synthesis gas.	L3	5	16
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Or

	b	Explain the manufacturing process of oxygen in detail.	L3	5	16
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