B. Sc. (Industrial Chemistry) Examination എവ് - ഉവ് 6 Semester-V

Paper- IC-503: Chemical Process Industries – I Subject Code: 4302

Time: 2.30 Hours Total Marks:			<u>;: 70</u>
Que.1	(A)	"Sea water is a storehouse of chemicals" justify this sentence.	10
	(B)	Which chemicals are directly obtained from sea water? OR	04
Que.1	(A)	What is sea bittern? How industrially MgCO ₃ is obtained from sea water?	10
	(B)	Write about herbicides.	04
Que.2	(A) (B)	Explain industrial production of ammonium sulphate. Discuss the important essential requirement of fertilizer. OR	10 04
Que.2	(A)	What is fermentation? Explain production of industrial alcohol by fermentation process.	10
	(B)	Give brief accounts on plant regulators.	04
Que.3	(A) (B)	Discuss industrial production of butanol with sketch. What is esterification? Explain with example. OR	10 04
Que.3		How industrially magnesium tri silicate manufactured? What is fertilizer? Explain with example.	10 04
Que.4	` '	Describe manufacture of acetic acid. Write a short note on fungicides. OR	10 04
Que.4	(A)	Describe manufacture of lactic acid with flow sheet diagram.	10
•	(B)	State and explain uses of sodium sulphide.	04
Que.5	• •	Describe manufacture of citric acid. What is molasses? Give its application. OR	10 04
Que.5	(A) (B)	Discuss manufacture of MgSO ₄ with flow sheet diagram. State and explain factor which influence the process of fermentation	10 04