

B. Sc. (Industrial Chemistry) Examination Oct-2015
Semester-V
Paper- IC-503: Chemical Process Industries – I
Subject Code: 4302

Time: **2.30** Hours

Total Marks: **70**

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| Que.1 | (A) Explain production of C_2H_5OH by fermentation process. | 10 |
| | (B) What do mean by herbicides? | 04 |
| OR | | |
| Que.1 | (A) What is sea bittern? How industrially $MgCO_3$ is obtained from bittern? | 10 |
| | (B) Which chemicals are directly obtained from sea water? | 04 |
| Que.2 | (A) Explain industrial production of ammonium sulphate with flow diagram. | 10 |
| | (B) Which chemicals are indirectly obtained from sea water? | 04 |
| OR | | |
| Que.2 | (A) Discuss industrial production of butanol by fermentation process. | 10 |
| | (B) Give industrial application of butanol. | 04 |
| Que.3 | (A) Describe industrial production of potassium chloride. | 10 |
| | (B) Which requirements are essential for fertilizer? | 04 |
| OR | | |
| Que.3 | (A) Write a brief note on fermentation of wine. | 10 |
| | (B) What is bagasse? Give its application. | 04 |
| Que.4 | (A) Discuss industrial production of sodium silicate. | 10 |
| | (B) Write a short note on fungicides. | 04 |
| OR | | |
| Que.4 | (A) Discuss manufacture of industrial acetic acid with flow sheet diagram. | 10 |
| | (B) What is an enzyme? Give examples of enzymes. | 04 |
| Que.5 | (A) Discuss industrial production of ammonium phosphate. | 10 |
| | (B) Give brief accounts on plant regulators. | 04 |
| OR | | |
| Que.5 | (A) How industrially urea was manufactured? | 10 |
| | (B) What is molasses? Give its application. | 04 |