

B.TECH. SEM -IV (CHEMICAL) 2014 COURSE (CBCS) :
WINTER - 2017
SUBJECT : CHEMICAL PROCESS INDUSTRIES

Day : **Friday**
Date : **24/11/2017**

Time : **02.30 PM TO 05.30 PM**
Max. Marks : 60

W-2017-2066

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labeled diagrams **WHEREVER** necessary.
- 4) Assume suitable data if necessary.

Q.1 Define unit operation and unit processes. Give at least four examples of each. **[10]**

OR

Give the significance of unit operation and unit processes. Explain how it is useful to understand a process.

Q.2 Describe solvay process for the manufacture of soda ash with a neat flow diagram. **[10]**

OR

Describe Dual process for the manufacture of soda ash.

Q.3 Describe frash process for extraction of sulfur. **[10]**

OR

Differentiate between chamber process and DCDA process.

Q.4 Name the different nitrating agents and give its applications in detail. **[10]**

OR

Describe the commercial production of any one nitrating agent.

Q.5 Explain the importance of sulfonation products in chemical process industries. **[10]**

OR

Describe commercial production of ABS with a neat flow diagram.

Q.6 Describe manufacturing of ethylene with a neat flow diagram. **[10]**

OR

Describe manufacturing of methanol by any one process.

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