

B TECH
(SEM IV) THEORY EXAMINATION 2018-19
INDUSTRIAL CHEMISTRY

Time: 3 Hours

Total Marks: 100

Note Attempt all sections equally & give answers in neat handwriting.

SECTION A

1. Attempt all questions briefly. 2 x 10 = 20
- Define the term selectivity.
 - Give two important uses of ammonia.
 - What is pickling?
 - Define the term fire point.
 - Which reagents are used for concentrating nitric acid?
 - Define the term clinker.
 - What are food additives?
 - Define the term unit process.
 - What is setting of cement?
 - What are herbicides?

SECTION B

2. Attempt any three of the following: 10 x 3 = 30
- Give uses of Neem oil.
 - Explain the term quality control and process control.
 - Write a note on purifying unit in contact process for manufacture of sulphuric acid.
 - Explain the term trade mark.
 - What is reinforced cement?

SECTION C

3. Attempt any one part of the following: 10 x 1 = 10
- What are safety precautions that are taken in industrial chemistry?
 - What are fuels? How they are classified? Give the applications of petrochemicals.
4. Attempt any one part of the following: 10 x 1 = 10
- What are pesticides? Give synthesis and applications of DDT and Endosulphan.
 - Explain with neat flow sheet, the manufacture of ammonia by Bosch- Haber process.
5. Attempt any one part of the following: 10 x 1 = 10
- Give the advantages and disadvantages of gaseous fuels.
 - Explain various methods for food preservation.
6. Attempt any one part of the following: 10 x 1 = 10
- What is Reynold's experiment? Explain it in detail.
 - Write a note on open pan evaporator.
7. Attempt any one part of the following: 10 x 1 = 10
- Explain the methods of super saturation and elaborate the mechanism of crystallization.
 - Write a detail note on rotary dryer.