Printed Pages:02 **Sub Code: ECY 401**

Paper Id: 151228 **Roll No.** | | | | | | | | | | |

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

Time: 3 Hours ***Total Marks: 100***

Note: Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief. **2 x 10 = 20**

a. Define the term selectivity.
b. Give two important uses of ammonia.
c.
d. Define the term fire point.
e. Which reagents are used for concentrating nitric acid?
f. Define the term clinker.
g. What are food additives?
h. Define the term unit process.
i. What is setting of cement?
j. What are herbicides?

SECTION B

2. Attempt any *three* of the following: **10 x 3 = 30**

a. Give uses of Neem oil.
b. Explain the term quality control and process control.
c.
acid.
d. Explain the term trade mark.
e. What is reinforced cement?

SECTION C

3. Attempt any *one* part of the following: **10 x 1 = 10**

(a) What are safety precautions that are taken in industrial chemistry?
(b) What are fuels? How they are classified? Give the applications of petrochemicals.

4. Attempt any *one* part of the following: **10 x 1 = 10**

(a) What are pesticides? Give synthesis and applications of DDT and Endosulphan.
(b) 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**

(a) Give the advantages and disadvantages of gaseous fuels.
(b) Explain various methods for food preservation.

6. Attempt any *one* part of the following: **10 x 1 = 10**

(a) What is Reynold's experiment? Explain it in detail.
(b) Write a note on open pan evaporator.

7. Attempt any *one* part of the following: **10 x 1 = 10**

(a) Explain the methods of super saturation and elaborate the mechanism of crystallization.
(b) Write a detail note op rotary dryer.