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**NA—237—2023**

**FACULTY OF SCIENCE**

**B.Sc. (Third Year) (Fifth Semester) EXAMINATION**

**NOVEMBER/DECEMBER, 2023**

**(New/CBCS Pattern)**

**INDUSTRIAL CHEMISTRY**

**Paper-XIII**

**(Process Equipment and Design Process Instrumentation)**

**(Wednesday, 27-12-2023)**

**Time : 10.00 a.m. to 12.00 noon**

*Time—2 Hours*

*Maximum Marks—40*

*N.B. :—* (1) Solve *all* questions.

(2) Draw suitable diagrams wherever necessary.

1. Explain the term 'distillation'. Draw a neat labelled diagram of flash distillation and steam distillation. 15

*Or*

(a) Define the term agitator. Explain any *four* agitators. 8

(b) Write a note on Baffling. 7

2. What is need of reaction vessel ? Explain in detail types of reaction vessel (any *four*). 15

*Or*

Define Corrosion. Explain corrosion with details and explain forms of corrosions. 15

P.T.O.

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3. Write short notes on (any *two*) :

10

- (a) Radiation temperature detector
- (b) Bimetallic thermometer
- (c) Pressure gauge
- (d) U-tube manometer.

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