## Unitiv

- 8. (a) What are the different types of air pollutants? Explain air pollution. 7
- (b) Explain radiation pollution in detail. 7
- 9. (a) Explain various processes of treatment of pollution and waste created from industries.
- (b) Explain noise pollution in detail.

Roll No.

(07/21-II)

#### 10301

# M. Sc. EXAMINATION

(For Batch 2017 & Onwards)

(Fourth Semester)

CHEMISTRY

CHIC(S)-406

Industrial Chemistry

Time: Three Hours

Maximum Marks: 70

Note: Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

- (a) Give preparation and applications of sulphuric acid.
- (b) What are two major advantages of dimethyl terephthalate over terephthalic acid?

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- 0 What are herbicides? Give two examples.
- (a) Define UV-stabilizers giving examples.
- <u>@</u> What is synthesis gas? How is it produced?
- (f) List major water pollutants
- (9) What is Nylon? Give its preparation.

 $2 \times 7 = 14$ 

# Unit I

2 (a) Explain the process of caustic soda formation. Give its industrial importance.

6 Give the preparation of the following important: which make them industrially polymers and also discuss their properties

(i) Polyesters

(ii) Acetal resins.

(a) How is polypropylene prepared? Give its various applications as' well

9 What are floropolymers? Give their

synthesis and applications.

## Unit II

- (a) What are flame retardants? Give their types with examples and structures.
- 3 What are blends? How do these vary the properties of polymers? Explain by giving one example.
- S (a) What are Agrochemicals? Explain Fertilizers.
- 9 Write briefly about insecticides giving structures of important insecticides.

### Unit III

- 6 (a) Explain petrochemical operations. various refinery and
- 9 Write a note on cracking processes.
- 7. (a) What are C<sub>1</sub> products? Explain formic acid and chloromethane in detail.

Write a note on acetic acid production. 7

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