



**MAV-3462**

Seat No. \_\_\_\_\_

**M. Sc. (Sem. III) Examination**

**October / November - 2018**

**Organic Chemistry - 2**

Time : Hours]

[Total Marks : 70

**Instruction :** (1) All questions carry equal marks.  
(2) Answers of all questions must be written in same answer book.

**1 Answer any two :** **14**

- (1) Write a short note on safety hazards.
- (2) Give an account on measures taken to protect against fire and toxic chemicals in the industry.
- (3) What is unit process ? Discuss the industrial importance of sulphonation.

**2 Answer any two :** **14**

- (1) Write the types of detergents and give brief account on each type.
- (2) Write the sources of essential oils. Give the name of any five essential oils. Discuss the general method for isolation of essential oils.
- (3) Write a note on "food additives" and "fruit concentrates."

**3 Answer any two :** **14**

- (1) Give the manufacturing process of cotton seed oil.
- (2) Give account on plant nutrients and plant hormones.
- (3) Write the types of insecticides. Write note on fungicides and rodenticides.

4 Answer any **two** : 14

- (1) Describe the manufacture of pulp from wood by kraft process.
- (2) Discuss the process of manufacturing ethanol from sugar industries.
- (3) Give synthesis and use of cimetidine and diazepam.

5 Answer any **seven** : 14

- (1) What is the importance of flowchart in industry ?
- (2) What types of basic chemical data are required for a chemical process ?
- (3) Write some specification for patents.
- (4) Give difference between hard soaps and soft soaps with their type of applications.
- (5) What are the reagents used for the hydroxylation reaction ?
- (6) What is the use of preservatives ? Give names of any two preservatives.
- (7) Write the difference between vegetable oil and hydrogenated vegetable oil.
- (8) Give the names and uses of any two Agrochemicals.
- (9) What is the use of sulfitation process in manufacture of sugar.
- (10) Why bleaching is used in the manufacture of paper ?