

III Semester M.Sc. Examination, December 2018
INDUSTRIAL CHEMISTRY
Agriculture and Health Care Chemicals (OE)

Time : 3 Hours

Max. Marks : 70

PART – AAnswer **any five** questions.**(5×2=10)**

1. a) Write the raw materials and chemical reactions involved in the production of phosphoric acid.
- b) How the composition of NPK in a mixed fertilizer are reported ?
- c) Write any four natural insecticides.
- d) Write the effect of endosulphon on biosphere.
- e) How perfumes are classified ?
- f) Write any four emulsifying agents used in perfume formulations.
- g) Write the essential qualities of edible oils.
- h) Why filters are necessary in soaps ?

PART – BAnswer **any five** questions.**(5×12=60)**

2. a) Explain the classification of fertilizers with examples.
- b) Explain compound and coated fertilizers.
- c) Explain the comparison between macro and micro elements. **(4+4+4)**
3. a) Discuss the production, properties and applications of nitric acid.
- b) Describe the preparation of triple super phosphate.
- c) With a neat diagram explain the manufacture of complex fertilizers. **(4+4+4)**
4. a) Write the benefits and disadvantages of pesticides.
- b) Discuss the salient features of integrated pest management.
- c) Explain the mechanism of action of insecticides. **(4+4+4)**

P.T.O.

