

Branch- MICROBIOLOGY

CHEMISTRY FOR MICROBIOLOGY

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer ALL questions

1 ALL questions carry EQUAL marks (10x2 = 20)

- 1 Define Mole Fraction.
- 2 What are neon materials?
- 3 Define analgesics. Give two examples.
- 4 • Mention the sources of vitamin K.
- 5 What are micro nutrients? ~
- 6 Give two examples for natural plant insecticides.
- 7 Define - Perfumes.
- 8 What are amphoteric detergents?•
- 9 • What are the enzymes that are involved in leather industry? •
- 10 Define: Adhesives. • *

SECTION - B (25 Marks!)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 5 = 25) .

- 11 a Describe the principle and method of distillation under reduced pressure.
OR
b Explain the following terms: (i) Nano wires (ii) Sublimation.
- 12 a Give an account on sulphadiazine.
OR
b Discuss the conformational analysis of cyclohexane. \
- 13 a Write note on the manufacture of Urea.,
OR
b Describe the following: (i) Calcium arsenate insecticide (ii) Rottenone.
- 14 a Write the preparation and properties of Teflon and polyethylene.
OR
b • Differentiate thermo and thermosetting plastics.
- 15 a Explain the treatment of tannery effluents.
OR
b Write short note on: (i) Protein adhesives (ii) Silicate adhesives.

SECTION - C (30 Marks)

Answer any THREE Questions

ALL Questions Carry EQUAL Marks (3 x 10 = 30)

- 16 • State Twelve principles of green chemistry. Give two green synthesis with example.
- 17 Describe the functions and deficiency diseases of water-soluble vitamins.
- 18 a Discuss the method of manufacture of triple super phosphate. (5)
b Briefly explain the insecticide action of nicotine. (5)
- 19 Write notes on the following:
i) Cocoa ii) Nitro cellulose iii) Enzymes in detergent industry. (3+3+4)
- 20 Explain the curing, preservation and tanning process of hides and skins.