

Con. 6303-12.

CN-4942

(REVISED COURSE)

(2 Hours)

[Total Marks : 40

- N.B. :** (1) Question No. 1 is **compulsory**.
 (2) Attempt any **four** from the remaining **six** questions.
 (3) Draw a **neat**, labelled diagram wherever **necessary**.

1. (a) Define with one suitable example wherever necessary :— 3
 (i) Resolving Power (ii) Selective Media (iii) Disinfectant.
- (b) Discuss radiation sterilization with respect to :— 5
 (i) Method (ii) Mode of Action (iii) Applications.

2. Differentiate any **two** of the following :— 8
 (a) Gram Positive and Gram Negative Microbe.
 (b) Sexual Reproduction of Fungi and Asexual Reproduction in Fungi.
 (c) Eukaryotes and Prokaryotes.

3. Write short notes on any **two** of the following :— 8
 (a) Dark Field Microscopy.
 (b) Enumeration of viruses.
 (c) Cultivation of anaerobic bacteria.

4. (a) Discuss any two Chemical antimicrobial agents with Respect to mode of Action 5
 and applications in pharma industry.
- (b) Write a note on preservation of Bacteria. 3

5. (a) Draw a neat, labelled diagrams of the following (any **three**) :— 6
 (i) Flurosence Microscopy.
 (ii) Growth Curve of Bacteria.
 (iii) Bacterial Flagella.
 (iv) Chick embryo cultivation of virus.
- (b) Give economic importance of Algae. 2

6. (a) Explain in detail Measurement of Bacterial Growth. 4
 (b) Explain in detail filtration sterilization. 4

7. Attempt any **four** of the following :— 8
 (a) Name causative organism of :
 (i) Typhoid (ii) Tuberculosis
- (b) Name the diagnositic test and treatments of :
 (i) Teatanus (ii) Leprosy
- (c) Two examples of Flagellated Bacteria.
- (d) Name any two rickettsial infections with respective causative organisms.
- (e) Name different types of bacteria on the basis of Oxygen requirement.