Seat No.

OCT_NOV_2024 WINTER EXAMINATION
2354 Bachelor of Science
Sub. Name: MICROBIOLOGY - VI (APPLIED MICROBIOLOGY)
Sub. Code: 91572/63608/73307/77709

Day and Date: JANUARY ,27-01-2025   Total Marks: 40
Time: 10:30 AM To 12:00 PM

Instructions: 1. All questions are compulsory
                2. Draw neat labelled diagrams wherever necessary
                3. Figures to the right indicate full marks

Q1)   Solve following MCQ.   [8]

i.   ....is a main protein present in the milk.
        A. Gelatine
        B. Casein
        C. Albumin
        D. Globulin

ii.   MBTR test determines ......quality of milk.
        A. Chemical
        B. Bacteriological
        C. Nutritional
        D. Physical

iii.   ....test is used to check the efficiency of pasteurization of milk
        A. Phosphatase
        B. MBRT
        C. Eijkmans
        D. MPN

iv.   Droplet nuclei present in air are smaller than .... in diameter.
        A. 0.1mm
        B. 0.1cm
        C. 0.11mm
        D. 1.0mm

v.   In fermentation process aeration of the medium is done by using........
        A. Sparger
        B. Baffle
        C. Impeller
        D. Antifoam agent

vi.   ....technique is used for primary screening of antibiotic production.

A. Giant colony
B. Crowded plate
C. Pour plate
D. Streak plate

vii.   Stock culture is maintained by..........
A. Lyophilization
B. Tyndallization
C. Sterilisation
D. Pasteurisation

viii.   ....is crude organic antifoam agent
A. Silicone compound
B. Phenyl acetic acid
C. Lard oil
D. Citric acid

Q2)   Attempt any 2   [16]

a.   What is fermentor? Describe their parts and functions.

b.   Discuss following tests in bacteriological analysi of water;IMViC , and Membrane filter.

c.   Define coliforms and describe tests for coliforms in bacteriological examination of water.

Q3)   Write short note- Attempt any 4   [16]

a.   Primary screening of antibiotic producing organism.

b.   Source of microorganisms in milk.

c.   Dual fermentation.

d.   MBRT test.

e.   Droplets and droplet nuclei.

f.   Carbon and nitrogen sources in fermentation media.

End Of Question Paper

Important Note for Chief Exam Officer / SRPD Coordinator / Sr Supervisor/ Student -
This Question Paper may be distributed for following Subjects as common code.
सदर ची प्रश्नपत्रिका खालील विषयांकरिता वितरित करता येईल.

[2]   P.T.O.