

Set -I

B.Sc. (Part – II) (Semester III)CBCS (NEP20) Examination Apr-2024

Balasaheb Desai College, Patan

Microbiology

Subject Code –91572

Applied Microbiology (Paper –VI)

Day and Date –Friday, 19/04/2024

Time – 10.30 am to 12.30 p.m.

Total Marks- 40

Period- 2 hours

Total Pages-

- Instruction -**
- 1) *All the questions are compulsory.*
 - 2) *Figures to the right indicate full marks.*
 - 3) *Draw neat labeled diagrams wherever necessary.*

Q.1 Rewrite the following sentences by selecting correct alternative 08

1. MBRT test is used for microbiological examination of -----.
a) Milk b) Air c) Water d) Soil
2. ----- is the major protein in milk.
a) Album b) Caesin c) Lactalbumin d) Globulin
3. ----- are anabolic metabolites.
a) Amino acids b) Ethanol c) Butanol d) Acetone
4. ----- are used for aeration in the fermentor.
a) Sparger b) Baffles c) Steam d) None
5. The size of droplet nuclei is ----- mm.
a) More than 0.1 b) Less than 0.1 c) More than 1 d) Less than 1
6. ----- is an example of dual and multiple fermentation..
a) Alcohol b) Vinegar c) Beer d) None
7. ----- is an indicator of fecal pollution.
a) *E. areogins* b) *E.coli* c) *Bacillus subtilis* d) *S. aureus*
8. Large scale fermentor has ----- liters of capacity.
a) 1-2 b) 50-100 c) 10,000 d) none

Q. 2 Attempt any two

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1. Discuss the sampling method for the microbiological examination of an air.

2. Define 'Fermentation'. Explain in detail various parts of Fermentor with suitable diagram.

3. Write an essay on Municipal Water purification.

Q.3 Write short note on (Any four)

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1. Membrane filtration technique.
 2. Primary screening of antibiotic producer.
 3. MPN.
 4. Continuous Fermentation.
 5. Phosphatase test.
 6. Dual and multiple fermentation.
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Set II

B.Sc. (Part-II) NEP (Semester -III) Examination, Oct 2023

MICROBIOLOGY Paper VI

Applied Microbiology

Sub code – 91572/73307

Date : Monday, 04/12/2023

Total Marks: 40

Time: 10.30 to 12.30 pm

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

Question No. 1. Rewrite the sentences by selecting correct alternative given below. (8)

1. ----- is an example of inert antifoam agent .

- a) Lard oil
- b) Silica
- c) Octadecanol
- d) Palm oil

2. ----- is the major Sugar in milk.

- a) Glucose
- b) Fructose
- c) Lactose
- d) Arabinose

3. ----- are is na example of secondary

- b) Amino acids
- c) Ethanol
- d) Antibiotic
- e) Acetone

4. ----- are used for agitation in the fermentor.

- b) Sparger
- c) Baffles
- d) Steam
- e) None

5. The size of droplet is -----.

- b) More than 0.1mm
- c) Less than 0.1mm
- d) More than 1 mm
- e) Less than 1 mm

- b) Alcohol
- c) Vinegar
- d) Beer
- e) None

- b) *Enterobacter areogens*
- c) *E.coli*
- d) *Bacillus subtilis*
- e) *Staphylococcus aureus*

- b) 1-2
- c) 50-100
- d) 1000
- e) none

1. Discuss the terms Droplet, Droplet nuclei and infectious dust in air.
2. Define 'Fermentation'. Explain in detail various parts of Fermentor with suitable diagram.
3. Write an essay on "IMViC test".

7. Membrane filtration technique.
8. Primary screening of antibiotic producer.
9. MPN.
10. Continuous Fermentation.
11. Phosphatase test.
12. Dual and multiple fermentation.