

### Mid-term test

Name of the Paper : Industrial and Environmental Microbiology  
Name of the Course : B.Sc. (H) Botany: DSE-3  
Semester : VI  
Date: : 27/03/2023

**1. Fill in the blanks (any five)**

**5 × 1 = 5 marks**

- Thermotolerant coliforms are also known as .....
- An example of differential-selective media is.....
- A microbe that converts nitrate into nitrogen gas is termed as .....
- A ..... is a CSTR equipped with turbidity meter.
- ..... is a porous device through which air is introduced in bioreactor.
- ..... are the microbe which form fibrous network of the bio-flock.

**2. Comment on the following (any four)**

**4 × 5 = 20 marks**

- Difference between fixed-bed and fluidized-bed bioreactor
- Difference between tower and air-lift bioreactor
- Describe presumptive test of MPN method
- Comment on Total Coliform
- Explain how microbe help in removal of dissolved organic carbon from domestic sewage

**3. Match the following**

**5 × 1 = 5 marks**

1. Baffle	a. Biofloc formation
2. Impeller	b. Tower fermenter
3. Beer production	c. Turbulence
4. Actinomycetes and zoogaea	d. Protozoa
5. Feeder of bacteria	e. CSTR

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