

RAN-2503000502016003
F.Y.B.Sc. (Sem. -II) Examination April - 2026
Microbiology (Paper - MB-MJ-201) Microbial Diversity
Time: 2 Hours]
[Total Marks: 38

સૂચના : / Instructions (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fill up strictly the above details on your answer book (2) Figures to the right indicate full marks of the question. (3) Draw neat and labeled diagrams whenever necessary.	Seat No.: Student's Signature
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- Q.1. Give specific answers (Any 8) (8)**
1. Name one ciliated protozoon.
 2. What are extremophiles?
 3. Name the scientist who proposed the three-domain system.
 4. Name any one asexual spores of fungi.
 5. What do you mean by Dimorphic fungi?
 6. What do you mean by Mycology?
 7. What is phytoplankton?
 8. Name one nitrogen fixing bacteria.
 9. Name one pigments of algae.
- Q.2. Explain/Comment on any two of the following (Any 2) (10)**
1. Discuss Alpha -Proteobacteria.
 2. Explain difference between cell wall of bacteria and archaea.
 3. Discuss the physiological diversity of microorganisms.
- Q.3. Explain/Comment on any two of the following (Any 2) (10)**
1. Explain the general structure of fungus.
 2. Distribution and economic importance of fungi.
 3. Describe sexual reproduction in fungi.
- Q.4. Write short note on any two of the following (Any 2) (10)**
1. Define protozoa and describe their general characteristics.
 2. State the importance of protozoa.
 3. Explain the habitat and distribution of algae.