



RAN-2203080501040003

M.Sc. Zoology (Sem. I) Examination November - 2025

EG - Zoo - 1004 - Microbiome

Time: 3 Hours]

[Total Marks: 70

સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book
- (2) Mention below given details in answer book
- (3) Figures to the right indicate full marks.
- (4) Draw neat and labelled diagrams wherever necessary.

Seat No.:

--	--	--	--	--	--

Student's Signature

- Q-1. Answer any Two of the following: (18)**
- A. **Write detail notes on:** Role of genome.
 - B. **Explain:** Role of lifestyle in development of human microbiome.
 - C. **Describe:** Role of microbiome on human health.
- Q-2. Answer any Two of the following: (18)**
- A. **Write detail notes on:** Interaction between gut microbiome.
 - B. **Explain:** Host microbiome under normal physiological condition.
 - C. **Describe:** Role of microbiome and human immunity.
- Q-3. Answer any Two of the following: (18)**
- A. **Write detail notes on:** Skin and oral microbiome.
 - B. **Explain:** Application of microbiome in treatment of disease.
 - C. **Describe:** Microbiome in other human tissue.
- Q-4. Answer any Two of the following: (16)**
- A. **Write detail notes on:** Viral metagenomics.
 - B. **Explain:** The Sargasso sea metagenomics survey and community profiling
 - C. **Describe:** The acid mine drainage project.