

2203080501040003
Examination March 2024
MASTER OF SCIENCE (ZOOLOGY) (FIRST SEMESTER)
MICROBIOME

[Time: Three Hours]

[Max. Marks:70]

Instructions:

1. Fill up strictly the following details on your answer book

- a. Name of the Examination : **MASTER OF SCIENCE (ZOOLOGY) (FIRST SEMESTER)**
- b. Name of the Subject : **MICROBIOME**
- c. Subject Code No : **2203080501040003**

2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.
5. Mention below given details in answer book.

Seat No:

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Student's Signature

Q.1 Answer any Two of the following:

18

- A. **Write detail notes:** Environment and lifestyle in development of microbiome.
- B. **Explain:** Development of Microbiome in human from maternal to old age
- C. **Describe:** Role of Genome

Q.2 Answer any Two of the following:

18

- A. **Write detail notes:** Immunity and their role in protection from pathogens.
- B. **Explain:** Host metabolism under normal physiological condition
- C. **Describe:** Importance of the communities of microorganisms that inhabit the human body.

Q.3 Answer any Two of the following:

18

- A. **Write detail notes:** Gut Microbiomes.
- B. **Explain :** Microbiome in other human tissues

C. **Describe:** Oral Microbiome.

Q.4 Answer any Two of the following:

16

A. **Write detail notes:** Metagenomics of insects with suitable example.

B. **Explain:** The acid mine drainage project.

C. **Describe:** The antibiotic resistor project.
