

B.Sc. Semester - 5 (Remedial) (NEP-2020) Examination**March/April-2026****MIC: Microbial Practice in the Ancient Indian System (Major-12)****Time: 2:00 Hours****Marks:50****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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| Que.1 | (1) | Explain the microbiological basis behind the antimicrobial use of substances in Ayurveda. | (05) |
| | (2) | Write short notes on traditional formulations Bhasma. | (05) |
| | | OR | |
| | (1) | Describe the contribution of Siddha and Unani medicine systems towards antimicrobial therapy. | (05) |
| | (2) | Explain the preparation and medicinal importance of <i>Kadha</i> . | (05) |
| Que.2 | (1) | Discuss the microbial role in the preparation of <i>curd</i> . | (05) |
| | (2) | Explain the concept of probiotics and gut health as described in Ayurveda | (05) |
| | | OR | |
| | (1) | Write an account on microbial fermentation in the preparation of alcoholic beverages in ancient India. | (05) |
| | (2) | Explain how traditional fermentation was applied in food preservation. | (05) |
| Que.3 | (1) | Describe the preparation and microbiological role of <i>Panchagavya</i> in organic farming. | (05) |
| | (2) | Explain traditional pest control methods using herbal pesticides. | (05) |
| | | OR | |
| | (1) | Write a note on significance of Jeevamrut in sustainable agriculture. | (05) |
| | (2) | Discuss the concept of <i>Agnihotra</i> and its impact on plant disease management. | (05) |
| Que.4 | (1) | Explain the role of vermiculture in soil fertility improvement. | (05) |
| | (2) | Describe the use of copper vessels in natural water purification. | (05) |
| | | OR | |
| | (1) | Discuss indigenous rainwater harvesting systems such as stepwells and <i>nadi</i> system. | (05) |
| | (2) | Explain the significance of charcoal and sand filtration in ancient water purification. | (05) |
| Que.5 | (1) | Discuss how the concept of Ayurveda correlates with microbiology in modern science. | (05) |
| | (2) | Write a note on Microbial applications water purification. | (05) |
| | | OR | |
| | (1) | Explain the role of biofertilizers in sustainable agriculture. | (05) |
| | (2) | Write a note on indigenous livestock farming practices for soil fertility improvements. | (05) |
