

2025

M.Sc. 1st Semester Examination

MICROBIOLOGY

Paper : MCBO406VC

[Indian Knowledge System (IKS)]

Full Marks : 25

Time : One Hour

The figures in the margin indicate full marks.

Candidates are required to give their answers

in their own words as far as practicable.

Group - A

Answer any *two* questions : 2×2=4

1. Define Indian Knowledge System (IKS) and list at least three diverse fields it covers according to the course overview.
2. Identify the three-tier political system used in ancient Indian governance and name the three specific types of "danda" involved.
3. Name four traditional educational institutions that existed in India before the impact of colonial education policies.
4. Briefly list the components of Kautilya's "Saptanga" model regarding the sources of income in the ancient Indian economy.

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(2)

Group - B

Answer any *two* questions : $4 \times 2 = 8$

5. Analyze the impact of colonial education policies on traditional Indian knowledge and explain the modern necessity for revisiting these systems.
6. Apply the principles of Ayurveda to explain how it provides a holistic approach to health, specifically focusing on the intersection of physical, mental, and spiritual well-being.
7. Illustrate the relevance of traditional Indian governance principles, such as those found in the *Arthashastra*, to modern administrative and statecraft practices.
8. Compare and contrast the epistemological foundations of IKS with modern scientific paradigms, identifying how they might complement each other in contemporary research.

Group - C

Answer any *one* question : $8 \times 1 = 8$

9. Evaluate the multidisciplinary contributions of IKS to environmental sustainability and resource management. Discuss how ancient practices in agriculture and water management can be integrated into modern efforts to solve the global climate crisis.
10. Create a proposal for a community-based project that integrates indigenous IKS perspectives into a modern professional context (such as healthcare, architecture, or technology).

Internal Assessment : 5 marks
