

2025

**M.Sc. 1st Semester Examination**

**BIOTECHNOLOGY**

**Paper : BITO406VC**

**[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 :  $2 \times 2 = 4$

1. What is meant by Indian Knowledge System?
2. State one contribution of Aryabhatta to astronomy.
3. How does Ayurveda address mental and spiritual health?
4. Mention any two areas covered under life sciences in ancient India.

**Group - B**

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

5. Write a short note on the ancient education system with reference to Takshashila and Nalanda University.

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6. Discuss the concept of life and universe as understood in Ancient Indian Science.
7. Explain the mathematical contributions of the Shulvasutra in the development of Geometry.
8. Describe the role of agriculture and ecology in ancient Indian Life Science.

**Group - C**

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

9. Describe the integrated approach to health care in ancient India focusing on Surgery and Yoga. What is panchakarma?  $3+3+2$
10. Explain the major contributors of ancient Indian astronomers highlighting the works of Barahamihira in understanding the Sun, Moon and Earth's rotation. 8

**Internal Assessment : 5 marks**

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