

Enrollment No./Seat No.:

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**MCA - SEMESTER - II EXAMINATION - SUMMER 2025**

**Subject Code: MC02094061**

**Date: 11-06-2025**

**Subject Name: Indian Knowledge System**

**Time: 10:30 AM TO 01:00 PM**

**Total Marks: 70**

**Instructions**

- 1. Attempt all questions.**
- 2. Make suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full marks.**
- 4. Use of simple calculators and non-programmable scientific calculators are permitted.**

	<b>Marks</b>
<b>Q.1 (a)</b> Define the term ‘Indian Knowledge System’. Briefly explain what you understand by each word in this term.	<b>07</b>
(b) List out four Vedas with its speciality.	07
<b>Q.2 (a)</b> Discuss in detail the classification of Vedangas.	07
(b) Discuss the six Classical Vedic Schools of Philosophy in detail.	07

**OR**

<b>(b)</b> What do you understand by the terms ‘Non-Vedic’ schools of philosophy?	<b>07</b>
<b>Q.3 (a)</b> Explain in detail the role of Phonetics in Sanskrit language.	<b>07</b>
(b) Discuss Unique Approaches To Represent Numbers in detail.	07

**OR**

<b>(a)</b> Write a detail note on role of Sanskrit in Natural Language Processing.	<b>07</b>
(b) Write a detail note on Pingala and the Binary System.	07
<b>Q.4 (a)</b> Discuss the Components of Knowledge Triangle in detail.	<b>07</b>
(b) Discuss in detail Great Mathematicians and Their Contributions in Indian Mathematics.	07

**OR**

<b>(a)</b> Comment on the statement, “Vaisesika is an ancient Indian approach to physics”.	<b>07</b>
(b) Discuss in detail knowledge of Arithmetic in Ancient Indian Mathematics.	07
<b>Q.5 (a)</b> Explain in detail Historical Development of Astronomy in India.	<b>07</b>
(b) Discuss in detail Disease Management process with example.	07

**OR**

<b>(a)</b> Explain in detail ‘Pancanga – The Indian Calendar System’.	<b>07</b>
(b) What is the Tri-Guna System? Write a detail note on it.	07

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