

Enroll No

K.E.Society's
Rajarambapu Institute of Technology, Rajaramnagar
(An Empowered Autonomous Institute, affiliated to SUK)

Q.P. Code
UT3507

Unit Test -II (2025-26)

F.Y. B.Tech.-Div. A, B, C, D, E, F, G

Course Code: SH148

Course Name: Ancient Indian Astronomy

Day & Date: 01/12/2025

Time: 3:45 pm to 4:45 pm

Max Marks- 25

- Instructions:**
- 1) All questions are compulsory.
 - 2) Figures in rounded () brackets within the question, indicate the scheme of marking for respective part of the question, whereas, figures in the first right column indicate total marks for that whole question.
 - 3) CO is the index number of the Course Outcome statement.
 - 4) The Bloom's taxonomy level (BL) for 1,2,3,4,5 and 6 is remember, understand, apply, analyze, evaluate and create respectively.
 - 5) Assume suitable data if necessary.
 - 6) Use of non-programmable calculators is allowed

			Marks	BT Level	COs
Q.1	A)	Explain the Indian Nakshatra system, including its key aspects.	4	L2	CO2
	B)	Explain the lunar and solar cycles and explain how they influenced timekeeping in ancient India.	6	L2	CO2
		OR			
		Explain the concept of ayanachalana (precession of the equinoxes) and planetary positions of celestial bodies.	6	L2	CO2
	C)	Explain the concept of Ayanas (Solstices).	3	L2	CO2
Q.2	A)	Explain the concept of Adhikamāśas (leap month) and the need for periodic corrections in the Indian calendar.	6	L2	CO3
		OR	6	L2	CO3
		Explain the concept Aryabhatiya and Siddhantic traditions for astronomical calculations in Indian calendar system.			
	B)	Classify the five elements of Panchanga and their scientific significance	6	L2	CO3

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