Course Code: 24BB1C03

BONAM VENKATA CHALAMAYYA INSTITUTE OF TECHNOLOGY & SCIENCE (AUTONOMOUS)

I-BBA I-Semester Supplementary Examinations (BR24), Jul - 2025 Indian Science, Engineering and Technology (Past, Present&Future) (BBA)

	Question Paper consists of Part-A and Part-B Answer ALL the question in Part-A and Part-B			
-	PART-A (10X2 = 20M)			
		Marks	CO	BL
.a)	What is a tank irrigation system	(2M)	CO1	BL
b)	Write a brief note on the three doshas in Ayurveda.	(2M)	CO1	BL
c)	What are the five elements (<i>Panchamahabhuta</i>) according to ancient Indian philosophy?	(2M)	CO2	BL
d)	What is the significance of gravity in the explanations provided in <i>Lilavati</i> ?	(2M)	CO ₂	BL
e)	What area of chemistry is Khanda known for contributing to?	(2M)	CO3	BL
f)	Define Saranataila and its role in ancient Indian chemistry.	(2M)	CO3	BL
g)	What is Nadi Matruka land used for in farming?	(2M)	CO4	BL
h)	What is the traditional method of spinning fibers in ancient India?	(2M)	CO4	BL
i)	What is the main focus of Gyan Yoga in Indian tradition?	(2M)	CO5	BL
j)	Name the three gunas (qualities) that affect the mind in Ayurveda.	(2M)	CO5	BL
	PART-B (5X10 = 50M)			
	Explain the significance of traditional research practices in ancient India. Explain the traditional practices for managing livestock diseases in India.	(5M) (5M)	CO1	В
	(OR)			
	Describe the features of traditional crop rotation methods in India. Describe traditional methods used in India to predict rainfall.	(5M) (5M)	CO1	В
	Explain the concept of atoms (anu) as described in Vaisheshika Darshan	(5M)		
	Explain the traditional Indian units of distance (OR)	(5M)	CO2	В
	Explain the five elements (Panchamahabhuta) and their characteristics.	(5M)		
	Summarize the major contributions of Bhaskaracharya in Siddhanta Shiromani.	(5M)	CO2	В
	Who was Vatsyayana, and what is his contribution to Indian science?	(5M)	COL	В
	Explain Brahmagupta's concept of zero and its significance. (OR)	(5M)	CO3	В
	Explain Khanda's contribution to the preparation of metals or alloys in ancient India.	(5M)	CO3	В
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8a.	Explain the significance of cotton production in ancient Indian trade.	(5M)	CO4	BL2
b.	Explain the significance of Nadi Matruka land for irrigation and farming.	(5M)	001	DLZ
	(OR)			
9 a.	Explain the importance of woollen textiles in colder regions of India.	(5M)		
b.	Explain the role of organic manures in enhancing soil fertility.	(5M)	CO4	BL2
10a.	Explain the concept of the Pancha Maha Bhutas?	(5M)	COS	BL2
b.	Explain the purpose of Raja Yoga in achieving self-realization.	(5M)	CO5	
	(OR)			
11a.	Explain how the mind influences physical health according to Ayurveda.	(5M)		
b.	Explain how Indian psychological concepts approach emotional well-being.	(5M)	CO5	BL2
