PRN: Course Code : **PHS317**

T.Y. **B.Sc.** End Semester Examination Summer 2024

Elective SEC-I(Astronomy and Astrophysics)

Day and Date: 29 MAY 2024, wednesday Max Marks: **50**

Time : 10:30AM To 12:30PM Duration: **02** hrs

Instructions:

- All questions are ***compulsory***
- Figures to the ***right*** shows ***full marks***
- ***Digital gadgets*** are ***not allowed***

			Marks	Bloom's Level	CO
Q.1		**Attempt any two from the following**			
	a)	Give the components of solar system. Write name of planets of sun in the order.	06	L1	CO1
	b)	Write planetary properties of Jupiter.	06	L2	CO1
	c)	Explain radiation curve. Discuss age, size and constituents.	06	L2	CO1
Q.2		**Attempt any two from the following**			
	a)	Discuss in brief life cycle of stars.	06	L2	CO2
	b)	Define sunspot. Write a note on sunspot cycle.	06	L1	CO2
	c)	Draw HR diagram. Write it's significance	06	L4	CO2
Q.3		**Attempt the following**			
	a)	Write a note on Milky way galaxy.	06	L2	CO3
	b)	Explain Big bang theory.	07	L3	CO3
		or			
	b)	What are the prospects of life on the Mars.	07	L1	CO3
Q.4		**Attempt the following**			
	a)	Explain Newtonian telescope and Reflecting telescope	06	L2	CO4
	b)	Discuss IR and Radio telescopes.	07	L2	CO4
		or			
	b)	Write information of Hubble Space Telescope (HST).	07	L2	CO4

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