QP CODE: D2BPH2404	(Pages: 2)	Reg. No : .....
		Name : .....

Second Semester (FYUGP) Degree Examination April 2025

MDC Physics

PHY2FM106 : Astronomy and Stargazing

(Credits: 3)

Time: 1.5 Hours **Maximum Marks: 50**

Section A

Answer the following questions. Each carries 2 marks (Ceiling: 16 marks)

1.	What is a telescope?	BL2	CO4
2.	What is horoscope?	BL2	CO1
3.	What do you mean by regolith?	BL2	CO4
4.	Distinguish between Umbra and Penumbra.	BL2	CO4
5.	What are trans-neptunian objects ?	BL2	CO4
6.	Differentiate between Chromosphere and Photosphere.	BL2	CO4
7.	What is the difference between a Lander and a Rover?	BL2	CO4
8.	What is the total number of constellations? How many constellations are there in the middle of the celestial sphere?	BL2	CO3
9.	What is a constellation? Explain with examples.	BL1	CO1
10.	Explain black hole.	BL1	CO5

Section B

Answer the following questions. Each carries 6 marks (Ceiling: 24 Marks)

11.	Draw the schematic of a celestial sphere and mark zenith and horizon.	BL2	CO1
12.	Discuss the reason why there is a difference in the number of days the Moon takes to orbit the earth and the days it takes to complete one phase cycle.	BL2	CO4
13.	Describe the terms (a) sun pillar (b) sundog (c) twilight rays (d) halo.	BL2	CO5

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14.	What are the differences between a solar eclipse and a lunar eclipse?	BL2	CO4
15.	How do stars move during night?	BL2	CO3
	Section C		
	Answer any one question. Each carries 10 marks (1 x 10 = 10 Marks)		
16.	What are the contributions of Nicolas Coppernicus and Tycho Brahe in modern astronomy.	BL1	CO4
17.	Explain deep sky objects? Define open clusters and globular clusters.	BL1	CO3
	CO : Course Outcome		
	BL : Bloom's Taxonomy Levels (1 – Remember, 2 – Understand, 3 – Apply, 4 – Analyse, 5 – Evaluate, 6 – Create)		