

QP Code: D 123515		Total Pages: 1	Name:
			Register No.
<b>SECOND SEMESTER (CUFYUGP) DEGREE EXAMINATION, APRIL 2025</b>			
<b>PHYSICS</b>			
<b>PHY2FM106 –Astronomy and Stargazing</b>			
<b>2024 Admission onwards</b>			
<b>Maximum Time :1.5 Hours</b>			<b>Maximum Marks :50</b>
<b>Section A</b>			
<b>All Questions can be answered. Each Question carries 2 marks (Ceiling : 16 Marks)</b>			
1	State Kepler's second law of Planetary motion.		
2	How night vision can be improved for stargazing?		
3	Differentiate between umbra and penumbra.		
4	Why is the sun referred to as a powerhouse?		
5	What are comets?		
6	The word "planet" originates from <i>Planetai</i> , meaning "wanderer." Discuss the appropriateness of this name.		
7	What factors influence the observed brightness of a star?		
8	What is a nebula?		
9	What is Alpha Orionis?		
10	What do you mean by a horoscope		
<b>Section B</b>			
<b>All Questions can be answered. Each Question carries 6 marks (Ceiling : 24 Marks)</b>			
11	What were Hipparchus's contributions to the field of astronomy		
12	Write a note on Super giants.		
13	What are the eight phases of the Moon, and how do they occur		
14	Discuss the Sun's path. How does it differ from the Moon's path?		
15	Differentiate between planets and dwarf planets. Provide two examples of each..		
<b>Section C</b>			
<b>Answer any ONE. Each Question carries 10 marks (1x10=10 Marks)</b>			
16	What contributions did Copernicus, Galileo, and Kepler make to the development of modern astronomy?		
17	Write an essay on the eight planets of our solar system.		