

QP Code: D142325		Total Pages:1	Name:
			Register No.
SECOND SEMESTER (CUFYUGP) DEGREE EXAMINATION, APRIL 2026			
APPLIED PHYSICS / PHYSICS			
APH2FM106 / PHY2FM106 –Astronomy and Stargazing			
2024 Admission onwards			
Maximum Time :1.5 Hours			Maximum Marks :50
Section A			
All Questions can be answered. Each Question carries 2 marks (Ceiling: 16 Marks)			
1	What do you mean by astronomy?		
2	State Kepler's first law of Planetary motion		
3	Write short notes on Canis Major Constellations		
4	Differentiate between equinoxes and solstices.		
5	What are asteroids? Give two examples.		
6	Write any one difference between planets and stars.		
7	Why do stars twinkle?		
8	What is a red giant?		
9	How do the Phases of moon happen?		
10	Differentiate between solar eclipse and lunar eclipse.		
Section B			
All Questions can be answered. Each Question carries 6 marks (Ceiling : 24 Marks)			
11	What were Hipparchus' contributions to the field of astronomy?		
12	Write a note on formation of stars		
13	What are the eight phases of the Moon and how do they occur?		
14	Discuss the sun's paths. How is it different from moon's path?		
15	Differentiate between planets and dwarf planets. Give two examples for each.		
Section C			
Answer any ONE. Each Question carries 10 marks (1x10=10 Marks)			
16	Write a note on Galileo and the Beginning of Modern Science.		
17	Draw the Orion and Canis Major constellations and mark their brightest stars.		

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PHYSICS			
PHY2FM106 –Astronomy and Stargazing			
2024 Admission onwards			
Maximum Time :1.5 Hours			Maximum Marks :50
Section A			
All Questions can be answered. Each Question carries 2 marks (Ceiling : 16 Marks)			
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		
Section B			
All Questions can be answered. Each Question carries 6 marks (Ceiling : 24 Marks)			
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..		
Section C			
Answer any ONE. Each Question carries 10 marks (1x10=10 Marks)			
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.		