24U210 (Pages: 2) Name : .....

Reg. No : .....

SECOND SEMESTER UG DEGREE EXAMINATION, APRIL 2025

(FYUGP)

CC24UPHY2FM106 - ASTRONOMY AND STARGAZING

(Physics - MDC)

(2024 Admission - Regular)

Time: 1.5 Hours Maximum : 50 Marks

Credit: 3

Part A (Short answer questions)

Answer ***all*** questions. Each question carries 2 marks.

1. Summarize Kepler's laws of planetary motion. [Level:2] [CO1]
2. Name the different types of clouds. [Level:1] [CO2]
3. What is meant by Sun's path? Explain. [Level:2] [CO3]
4. Mention why stars appear to move across the night sky? [Level:1] [CO4]
5. Write note on Stages of a Solar Eclipse. [Level:2] [CO3]
6. Represent the geocentric model and its limitations. [Level:2] [CO1]
7. Explain the concept of Supermoon. [Level:2] [CO2]
8. Explain Transit method and Imaging Method. [Level:2] [CO3]
9. Name a few stars in Ursa major. [Level:1] [CO4]
10. Explain the importance on telescopes and binoculars in astronomy. [Level:2] [CO4]

(Ceiling: 16 Marks)

Part B (Paragraph questions/Problem)

Answer ***all*** questions. Each question carries 6 marks.

11. Abstract the characteristics that differentiate planets from stars. [Level:2] [CO1]
12. Explain the craters on the moon. [Level:2] [CO2]
13. Discuss the difference between inferior planets and superior planets. [Level:1] [CO3]
14. Describe the life cycle of stars, from their formation to their death. [Level:2] [CO4]
15. Differentiate eight plants. [Level:2] [CO3]

(Ceiling: 24 Marks)

Part C (Essay questions)

Answer any ***one*** question. The question carries 10 marks.

16. Explain the major flaws of the Ptolemaic system, and how were they addressed by later astronomers like Copernicus and Galileo? [Level:2] [CO1]

17. Make a short note on Lunar Eclipse. [Level:3] [CO2]

(1 × 10 = 10 Marks)

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