

|                                                                                   |                                                                               |               |                   |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------|-------------------|
| 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. |               |                   |