

Reg No:.....
Name :.....

K25FY2229

Second Semester FYUGP Physics Examination
APRIL 2025 (2024 Admission onwards)
KU2MDCPHY102 (WONDERS OF THE COSMOS)
(DATE OF EXAM: 26-4-2025)

Time : 90 min

Maximum Marks : 50

Part A (Answer any 6 questions. Each carries 2 marks)

1. Name the text known as the "Bible of Astrology". Who compiled it? 2
2. What do you mean by aurora. 2
3. Define focal length of a lens 2
4. When does a partial lunar eclipse happen? 2
5. Differentiate between the equinoxes and solstices. 2
6. Match the following

Saturn	Titan
Earth	Moon
Jupiter	Callisto
Mars	Phobos

2

7. (i) 1 day on Jupiter = _____ Earth hours (ii) 1 year on Jupiter = _____ Earth years 2
8. Name the stars known as (i) Eye of the bull (ii) Heart of scorpion 2

Part B (Answer any 4 questions. Each carries 6 marks)

9. Explain how Galileo's discoveries supported Copernican model? 6
10. Explain the structure of milky way with a figure 6
11. Give a brief note on the birth of the moon. 6
12. Explain how a star is formed? 6
13. Write a note on birth of a solar system. 6
14. Define zodiac constellations. Name them and explain how zodiacal constellations are different from other constellations 6

Part C (Answer any 1 question(s). Each carries 14 marks)

15. Explain how stars are born, live and die. 14
16. Explain how Galileo's discoveries marked the beginning of modern astronomy. end of unit 1 14