

SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN
(AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)

Chromepet, Chennai - 600 044.

B.Sc.Physics - END SEMESTER EXAMINATIONS - APRIL 2025

SEMESTER -VI

24UPHET6B02 - Astronomy Exploring Time and Space

Total Duration : 1 Hrs.30 Mins.

Total Marks : 40

Section B

Answer any **TEN** questions ($10 \times 2 = 20$ Marks)

1. Define the term: Astronomy, Astrophysics.
2. List the various tools used in the field of astronomy.
3. What is an interferometer?
4. What are gravitational waves?
5. Define Constellation.
6. Differentiate between solar day and sidereal day.
7. Name the two angles which defines the position of objects in the night sky.
8. Name any two space agency which plays a crucial role in the space exploration.
9. Define Exoplanet.
10. What is the habitable zone with respect to a star?
11. Define the term Milky way.
12. What is the limitation of visible light in astronomy?

Section C

Answer any **FOUR** questions ($4 \times 5 = 20$ Marks)

13. What are the various observing limitations in astronomy?
14. Write a note on gravitational waves in astronomy.
15. Briefly explain about Hubble space telescope.
16. Explain the important role of telescopes in the field of astronomy.
17. Discuss the significance of the Moon's orbit in astronomy.
18. Writ a short note on solar eclipse.
