

B.Sc. Semester - 5 (Remedial) (NEP-2020) Examination**March/April-2026****PHY: Introduction to Astronomy (Minor-4)****Time: 2:00 Hours****Marks:50****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Que.1 Answer the following question (any two). (10)
- (1) Explain scales and dimensions in astronomy.
 - (2) Explain earth, sun and the solar system.
 - (3) Write a short note on sidereal time.
- Que.2 Answer the following question (any two). (10)
- (1) Explain electromagnetic waves.
 - (2) Write a short note on electromagnetic spectrum.
 - (3) Write a short note on interferometry.
- Que.3 Answer the following question (any two). (10)
- (1) Write a short note on evolution on the main sequence.
 - (2) Explain neutron star.
 - (3) Write a short note on black holes.
- Que.4 Answer the following question (any two). (10)
- (1) Write a short note on photosphere of sun.
 - (2) Explain chromosphere of sun.
 - (3) Write a short note on sunspots and the solar cycle.
- Que.5 Answer the following question (any five). (10)
- (1) Give the value of Earth's radius, Earth's mass, Sun's radius and Sun's mass.
 - (2) Explain astronomical catalogs.
 - (3) Discuss: theoretical limit on resolution.
 - (4) Explain mounting of telescope.
 - (5) Population I and II stars.
 - (6) Discuss: Supernova.
 - (7) Explain solar wind.
 - (8) Discuss: Some Transient Phenomena of sun.
