

Step Academy official

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STUDENT NAME	
PAPER CODE	77426
TIME ALLOWED	60
Paper Date	09-02-2026



CLASS	New 1st Year (FSC/ICS)
SUBJECT	Physics
TOTAL MARKS	25
Paper Type	

Q1. Choose the correct answer.

$$5 \times 1 = 5$$

Q2. Write short answers of the following questions.

$$5 \times 2 = 10$$

- 1 . What are the applications of Brewster's angle?
- 2 . Would it be possible to use a polarizer as an analyzer? If yes, give at least two examples.
- 3 . Is Malus' law applicable to unpolarized light?
- 4 . Why are gravitational waves important in astronomy?
- 5 . How are tidal forces related to space-time distortion?

Q3. Write detailed answers of the following questions.

$$2 \times 5 = 10$$

- 1 . State Malus's law. Explain the intensity formula.
- 2 . We wish to use a glass plate of refractive index of 1.5 in air as a polarizer. Find the polarizing angle and angle of refraction.