

NEET WAVE OPTICS — COHERENT AND INCOHERENT SOURCES, INTERFERENCE — PYQS

Max. Marks: 8

Questions: 2

Section A (MCQ) — 2 questions

Q.1 In interference and diffraction, the light energy is redistributed. If it reduces in one region, producing a dark fringe, it increases in another region, producing a bright fringe.

- A. As there is no gain or loss of energy, these phenomena are consistent with the principle of conservation of energy.
 B. Diffraction and interference are characteristics exhibited only by light waves.

Choose the correct answer from the options given below :

[NEET (UG) 2026]

- (1) A is false, but B is true
 (2) A is true, but B is false
 (3) A is true and B is also true
 (4) Both A and B are false

Scan or tap for the
full solution



Q.2 Interference pattern can be observed due to superposition of the following waves:

- A. $y = a \sin \omega t$ B. $y = a \sin 2\omega t$
 C. $y = a \sin(\omega t - \phi)$ D. $y = a \sin 3\omega t$

Choose the correct answer from the options given below.

[RE-NEET (UG) 2024]

- (1) B and C (2) B and D (3) A and C (4) A and B

Scan or tap for the
full solution



ANSWER KEY

Ques.	1	2									
Ans.	2	3									