

NEET WAVES — PRINCIPLE OF SUPERPOSITION OF WAVES — PYQS

Max. Marks: 8

Questions: 2

Section A (MCQ) — 2 questions

Q.1 Two periodic waves of intensities I_1 and I_2 pass through a region at the same time in the same direction. The sum of the maximum and minimum intensities is [AIPMT 2008]

- (1) $(\sqrt{I_1} - \sqrt{I_2})^2$ (2) $2(I_1 + I_2)$
 (3) $I_1 + I_2$ (4) $(\sqrt{I_1} + \sqrt{I_2})^2$

 Scan or tap for the
full solution


Q.2 Two waves having equation $x_1 = a \sin(\omega t - kx + \phi_1)$, $x_2 = a \sin(\omega t - kx + \phi_2)$. If in the resultant wave the frequency and amplitude remain equal to amplitude of superimposing waves, the phase difference between them is [AIPMT 2001]

- (1) $\frac{\pi}{6}$ (2) $\frac{2\pi}{3}$ (3) $\frac{\pi}{4}$ (4) $\frac{\pi}{3}$

 Scan or tap for the
full solution


ANSWER KEY

Ques.	1	2									
Ans.	2	2									