

PYQSide

NEET STRUCTURE OF ATOM — WAVE NATURE OF ELECTROMAGNETIC RADIATION — PYQS

Max. Marks: 12

Questions: 3

Section A (MCQ)

- Q.1** A particular station of All India Radio, New Delhi broadcasts on a frequency of 1,368 kHz (kilohertz). The wavelength of the electromagnetic radiation emitted by the transmitter is : [speed of light $c = 3.0 \times 10^8 \text{ m s}^{-1}$] [NEET (UG) 2021]
- (1) 21.92 cm (2) 219.3 m
(3) 219.2 m (4) 2192 m

Scan or tap for the full solution



- Q.2** The value of Planck's constant is $6.63 \times 10^{-34} \text{ J s}$. The speed of light is $3 \times 10^{17} \text{ nm s}^{-1}$. Which value is closest to the wavelength in nanometer of a quantum of light with frequency of $6 \times 10^{15} \text{ s}^{-1}$? [NEET 2013]
- (1) 50 (2) 75 (3) 10 (4) 25

Scan or tap for the full solution



- Q.3** The value of Planck's constant is $6.63 \times 10^{-34} \text{ J s}$. The velocity of light is $3.0 \times 10^8 \text{ m s}^{-1}$. Which value is closest to the wavelength in nanometers of a quantum of light with frequency of $8 \times 10^{15} \text{ s}^{-1}$? [AIPMT 2003]
- (1) 2×10^{-25} (2) 5×10^{-18}
(3) 4×10^1 (4) 3×10^7

Scan or tap for the full solution



ANSWER KEY

Ques.	1	2	3								
Ans.	2	1	3								