

NEET MECHANICAL PROPERTIES OF SOLIDS — BULK MODULUS AND COMPRESSIBILITY — PYQS

Max. Marks: 8

Questions: 2

Section A (MCQ) — 2 questions

Q.1 The bulk modulus of a spherical object is 'B'. If it is subjected to uniform pressure 'P', the fractional decrease in radius is [NEET 2017]

- (1) $\frac{B}{3P}$ (2) $\frac{3P}{B}$ (3) $\frac{P}{3B}$ (4) $\frac{P}{B}$

Scan or tap for the full solution



Q.2 The approximate depth of an ocean is 2700 m. The compressibility of water is $45.4 \times 10^{-11} \text{ Pa}^{-1}$ and density of water is 10^3 kg/m^3 . What fractional compression of water will be obtained at the bottom of the ocean? [AIPMT 2015 (Cancelled)]

- (1) 1.2×10^{-2} (2) 1.4×10^{-2}
 (3) 0.8×10^{-2} (4) 1.0×10^{-2}

Scan or tap for the full solution



ANSWER KEY

Ques.	1	2											
Ans.	3	1											