

CBSE Class 11 Physics Sample Paper Set 2

Time: 3 Hrs

Maximum Marks: 70

General Instructions:

- All questions are compulsory.
- There are 30 questions in total. Questions 1 to 8 carry one mark each, questions 9 to 18 carry two marks each, questions 19 to 27 carry three marks each and questions 28 to 30 carry five marks each.
- There is no overall choice. However, an internal choice has been provided in one question of two marks, one question of three marks and all three questions of five marks each. You have to attempt only one of the given choices in such questions.
- Use of calculator is not permitted.
- You may use the following physical constants wherever necessary.

$$e = 1.6 \times 10^{-19} \text{ C}$$

$$c = 3 \times 10^8 \text{ ms}^{-1}$$

$$h = 6.6 \times 10^{-34} \text{ JS}$$

$$\mu_0 = 4\pi \times 10^{-7} \text{ NA}^{-2}$$

$$k_B = 1.38 \times 10^{-23} \text{ JK}^{-1}$$

$$N_A = 6.023 \times 10^{23} / \text{mole}$$

$$m_e = 9.1 \times 10^{-31} \text{ kg}$$

Q1. Give dimensions of (i) rotational Kinetic energy (ii) strain.

1

Q2. If the force shown on the block is action, what is its reaction?



1

Q3. Mention two advantages of 'I' shape of iron beams used in building construction.

1

Q4. The graph below shows load extension curve for two wires A and B of the same material and of same length.

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