

FORMATIVE ASSESSMENT-I, 2024-25
PHYSICS

Time allowed: One hour

GRADE: X

Max. Marks: 40

Answers to this Paper must be written on the paper provided separately.

You will not be allowed to write during first 15 minutes.

This time is to be spent in reading the question paper.

The time given at the head of this Paper is the time allowed for writing the answers.

Section A is compulsory. Attempt any two questions from Section B.

The intended marks for questions or parts of questions are given in brackets [].

SECTION A

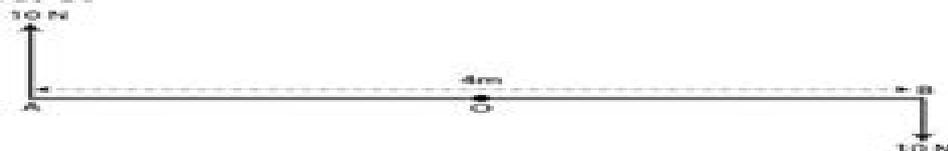
(Attempt all questions from this Section.)

Question 1

Choose the correct answers to the questions from the given options:

[7]

- (i) Two forces each of magnitude 10N act vertically upwards and downwards respectively at the two ends A and B of a uniform rod of length 4m which is pivoted at its midpoint O as shown. Determine the magnitude of resultant moment of forces about the pivot O.



- a) 40 N m anticlockwise
b) 40 N m clockwise
c) 0
d) 80 N m anticlockwise
- (ii) A particle is thrown upward with some kinetic energy. What happens to its kinetic energy at the highest point or height it reaches.
a) Its kinetic energy is lost
b) Its all kinetic energy is absorbed by air.
c) Its kinetic energy is converted to potential energy
d) Its kinetic energy remains same
- (iii) With what velocity a student of mass 60kg run so that his kinetic energy becomes 270 J?
a) 10m/s
b) 3m/s
c) 20m/s
d) 2.5m/s

Grade 10 Physics Papers

Karin Nielsen-Saines



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