

**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 [ ].*

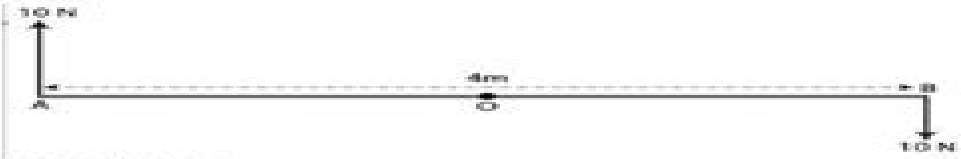
**SECTION A**

*(Attempt all questions from this Section.)*

**Question 1**

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

**[7]**

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

# Grade 10 Physics Paper 1 Exemplars

**JR Anderson**



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