

Q.3 Solve the following questions. (Any two) (6)

- 1) Why is the work done on an object moving with uniform circular motion zero?
- 2) When an object falls freely to the ground, its acceleration is uniform. Give scientific reason.
- 3) Derive the formula for the kinetic energy of an object of mass m , moving with velocity v .

Q.4 Solve the following questions. (Any one) (5)

- 1) Take 5 examples from your surroundings and give explanation based on Newtons laws of motion
- 2) answer the questions.
 - i) Explain positive, negative and zero work done.
 - ii) Derive relationship between joule and erg.
 - iii) State law of conservation of energy.



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