Work and energy class IX

- 1. What do you understand by 'work'? Sometime you are working hard like studying .ls there work is done ,lf not why give reason ?
- 2. Define 1 J of work?
- 3. A force of 7 N on an object the displacement is 8 m in the direction of the force. What is the work done in the case?
- 4. State the situation when work done is negative.
- 5. Apair of bullock exerts a force of 140 N on a plough. The field being ploughed in 15 m long . how much work is done in ploughing the length of the field?
- 6. What do you understand by 'Energy'? if you are riding a bicycle list the form of energy you are noticing?
- 7. What is kinetic energy? Find the formula of KE?
- 8. The kinetic energy of an object of mass M moving with a velocity of 5 m/s is 25 J. What will be its kinetic energy when its velocity is increase three times?
- 9. What do you understand by potential energy?
- 10. An object of mass 12 kg is at a certain height above the ground. If the potential energy of the object is 480 J. Find the height at which the object is with respect to the ground g = 10.
- 11. State law of conservation of mass.