Ch- 11: Work, Power and Energy

Class: IX Date: 21.01.23

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Numerical Sums:

1. A ball of mass 200g falls from a height of 5 metres. What is its K.E when it just reaches the ground? (g = 9.8 ms^{-2})
2. What must be the velocity of a moving body of mass 2 kg so that its K.E is 25 J?
3. A body of mass 2 kg falls from rest. What will be its K.E after 2 seconds? (g = 10 ms^{-2})
4. How much work should be done on a bicycle of mass 20 kg to increase its speed from 2 ms^{-1} to 4 ms^{-1}? (Ignore air resistance and friction)
5. A body of mass 2 kg is moving with a speed of 20 ms^{-1}, Find its K.E?