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3. A force of 0.04 Newton acts upon a body. As a result, the speed of the body changes from 0.30 ms^{-1} to 0.10 ms^{-1} , in passing through a certain distance. Find the distance if the mass of the body is one kilogram.
4. State and explain work energy theorem.
5. Explain surface energy. Establish its relation with surface tension.
6. Discuss the different mechanisms of heat transfer with illustrations.
7. A uniform field of magnetic induction **B** points horizontally from south to north, its magnitude is 1.5 Wb/m^2 . If a 5 MeV proton moves vertically downward through this field, what force will act on it?
8. What are standing waves? Give important characteristics of standing waves.
9. Explain the operation of a p-n junction in the forward and reverse biased conditions and draw the forward and reverse biased characteristics.

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