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| Class :**IV/IVB.Tech** | **Assignment-I** | Date : 28-08-2019 |
| Branch **: EEE** | **NEW & RENEWABLE ENERGY SOURCES** |  |
| Sub Code : **EE-415** |  | Max.Marks :**12** |

1. Draw the table Showing Various Devices that convert from One energy form to another energy form.(PO 1,6,7)(CO 1,2,3)(**Analyse**)
2. What is a thermo electric generator? Explain the principle and working of Thermo electric generator? (PO 1,6,7)(CO 1,2,3)(**Understand)**
3. State the working principle of Hot air Engine with neat sketch? (PO 1,6,7)(CO 1,2,3)**(Understand)**
4. Draw the characteristics of a solar cell and define , FF and efficiency of solar cells. (PO 1,6,7)(CO 1,2,3)(**Understand)**
5. What are the different types of losses in solar cells and how to minimize them? PO 1,6,7) (CO 1,2,3)**(Understand)**
6. Give the one diode and two diode model of a solar cell. How are Optical and electrical losses represented in the model? In what Condition is One diode Model used? (PO 1,6,7)(CO 1,2,3)**(Understand)**