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|  | Describe the modelling of solar cell with relevant sketches and explain the effect of series and shunt resistance on open circuit voltage and short circuit current. |
|  | Describe in detail about the Photo Voltaic cell equivalent circuit and its I-V and P-V characteristics with neat sketch. |
|  | Explain the effect of radiation intensity and temperature on the short circuit current, open circuit voltage and power generated by PV cell. |
|  | Explain the need of Bypass diode and Blocking diodes in PV System |
|  | a) Discuss about Spectral Power Distribution of Solar Radiation.  b) Explain Terrestrial and Extra-Terrestrial Radiation with neat sketch. |