

VFSTR - VADLAMUDI	Regd. No.										
	Year	Semester			Branch			Section			
Staff Name: Dr. P. Srinivasa Rao	I	1			Non-Bio			26 to 46			
Faculty Dept.: Physics	Course: EP			Code: 25PY101			Set-2				
Program Name: B. Tech.	Date: 18.12.25			Time: 11:00 to 12.30 AM (Each Course 30 Minutes)				M2 Pre - T1			

1. Explain the role of depletion region in the p-n junction diode in the conversion of solar energy into electrical energy? Write the expressions for the Fill factor and Efficiency.

(5M)

2. Elucidate the differences between Direct bandgap and Indirect bandgap semiconductors with neat band diagrams.

(5M)