

Department of Electronics & Communication Engineering
Faculty of Engineering, Integral University, Lucknow

Assignment Sheet 3

Basic Electronics (EC-101)

Faculty : Shrish Bajpai

Due Date : August 23 & 24, 2012

Problems : 1

1. Write down detail notes with appropriate figures of the following

- (a) Half Wave Rectifier
- (b) Full Wave Centre Tap Rectifier
- (c) Full Wave Bridge Rectifier

Note : Student should solve each rectifier problem in such way

(I). Theory : Draw the figure of the corresponding rectifier and detail operational theory.

(II). Waveform : Draw the input and output waveform and show the relationship.

(III). Parameter Calculation : Calculate the following parameters with its mathematical derivations where it's needed.

- (a) V_{dc} and I_{dc}
- (b) I_{rms}
- (c) Ripple Factor (r)
- (d) Efficiency (η)
- (e) T.U.F.

Do the assignment on A-4 sheets only.

After the date of submission, assignment will not be accepted and zero marks will be allotted to the student who fail to submit the assignment on due date.