



BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi & Affiliated to Guru Gobind Singh Indraprastha University, Delhi)

(An ISO 9001:2015 Certified Institution)

A-4, Paschim Vihar, Main Rohtak Road, New Delhi – 110 063

Department of Electrical and Electronics Engineering

Student Name.....	Enroll. No.....
Semester V	Date
Course Code EEC 309	Course Title PE
Quiz/Test No. 3	Marks Obtained.....
Max. Marks : 1	Evaluator's Sign.....

Quiz 3 Set A

Time: Five Minutes

Note: Write the answer separately in the space allotted for the purpose at the end of the sheet. Use the blank space for working out the solution.

Q) A single phase full converter bridge circuit is feeding a DC motor and is fed from 230 V, 50 Hz source. The load current is constant at 15 A. $R=0.5\ \Omega$, $L=0.3\text{ H}$. Evaluate the firing angle of the converter if the back emf of the motor has a value of 100 V.

Solution:

Answer: