

VITHALBHAI PATEL & RAJRATNA P.T. PATEL SCIENCE COLLEGE  
VALLABH VIDHYA NAGAR

T.Y. B.Sc. SEM: VI  
SUB: ELECTRONICS  
SUB CODE: US06ELE05

INTERNAL TEST

DATE: 14<sup>th</sup> march 2014  
TIME: 3:30 pm to 5:00 pm  
TOTAL MARKS: 30

- Q.1 Answer the following in short.(Attempt any Three, each two marks) [06]
- (1) What is phase control?
  - (2) Give a principle of step up chopper.
  - (3) Define chopper.
  - (4) Why power controlling is needed?
  - (5) State function of dual converters.
  - (6) State the application of chopper.
- Q.2 Explain different version of full wave phase control circuit [08]  
OR
- Q.2 Draw the necessary diagram of dual converter; explain functional mechanism and principle of it. [08]
- Q.3 Draw the circuit diagram of step up chopper and discuss its working. [08]  
OR
- Q.3 Explain principle of chopper operation with necessary circuit diagram and wave forms in detail. [08]
- Q.4 Discuss type B chopper with necessary diagram. [08]  
OR
- Q.4 Discuss type A chopper with necessary diagram. [08]



- : All the best: -