

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

F.Y. B.Sc. SEM: II

INTERNAL TEST

DATE: 12th March 2014

SUB: INSTRUMENTATION (VOC.)

TIME: 11:00 pm to 12:00 pm

SUB CODE: US02CINV02

TOTAL MARKS: 30

- Q.1 Answer the following in short.(Attempt Three, each two marks) [06]
- (1) What is transducer? list different type of transducer.
 - (2) Just list and draw schematic of different type of filters.
 - (3) List the different principle of displacement types.
 - (4) List the force summing members.
 - (5) Draw the block diagram of power supply.
 - (6) What is piezo electric effect? Draw the symbol of piezo electric transducer.
- Q.2 Explain block diagram of power supply in detail. [08]
- OR
- Q.2 (A) Explain bridge rectifier in detail. [05]
(B) Draw the figure of any two filters, and explain any one in detail. [03]
- Q.3 (A) Explain and derived an equation of strain gauge in detail. [08]
- OR
- Q.3 (A) Explain inductive transducer in detail. [04]
(B) Explain oscillation transducer. [04]
- Q.4 (A) Explain potentiometric transducer in detail. [04]
(B) Explain capacitive transducer in detail. [04]
- OR
- Q. 4 Draw any four displacement transducer and explain In detail. [08]



- : All the best: -