

Extra
11 copies

V.P. & R.P.T.P SCIENCE COLLEGE
INTERANAL EXAMINATION
F.Y.B.Sc (2ND-SEMESTER) INSTRUMENTATION (VOC.)

SUB :- INSTRUMENTATION SYSTEM-II

SUB.CODE :- US02CINV02

DATE :- 09/03/2017

TIME :- 1.30 P.M TO 2.30 P.M.

MARKS-25

Q-1 Choose correct answer. [3]

- _____ is the maximum voltage across the diode in the reverse direction.
(A) Ripple factor (C) Efficiency
(B) Form factor (D) PIV
- Strain gage is an example of _____ transducer.
(A) Active (C) Passive
(B) Self generating (D) None of these
- The mechanical elements that are used to convert the applied force into _____ are called force-summing devices.
(A) Displacement (C) Electrical
(B) Differential (D) None of these

Q-2 Short answer type questions. (attempt any two) [4]

- State difference between half wave and full wave bridge rectifier.
- What do you mean by transducer ? List different types of transducers.
- State basic principle of inductive transducer.

Q-3 Draw the block diagram of power supply and explain function of each block in detail. [6]

OR

Q-3 What is filter ? List different types of filters and discuss any two filters in detail with neat diagrams. [6]

Q-4 Discuss classification of transducers with necessary parameters. [6]

OR

Q-4 Write a note on strain gage and derive an equation for gage factor K. [6]

Q-5 Give an account of piezoelectric transducer and oscillation transducer in detail with neat diagrams. [6]

OR

Q-5 Discuss different types of force-summing members with schematic diagrams. [6]

*****Best of luck*****

