

KERALA AGRICULTURAL UNIVERSITY

B.Tech (Food .Engg) 2011 Admission

VIth Semester Special Re- Examination- June -2015

Cat. No: Elen.3202

Title: Instrumentation and Process Control (2+1)

Marks: 80.00

Time: 3 hours

I. Fill in the blanks : (10 x 1 = 10)

1. _____ essentially involve the comparison of the magnitudes of unknown variables with predetermined standard.
2. A thermocouple transduces the temperature signal in the form of _____.
3. The ratio of the change in output to the change in input is the _____ of the instrument.
4. A spurious signal that modifies the output of the instrument is termed as _____.
5. Wheatstone bridge has got three resistances taken in one direction as 121Ω , 119Ω and 119Ω . The value of the fourth resistance for null balance would be _____.
6. The most common transducer for shock and vibration measurement is _____.
7. _____ are intermediate elements that increase the magnitude of the signal from a transducer so that it can be conveniently displayed or recorded.
8. The atmospheric pressure at sea level is nearly _____ kPa.
9. The basis for measuring temperature is given by _____ law of thermodynamics.
10. The practical range of scale of pH meter varies from zero to _____.

II. Write short notes on ANY TEN: (10 x 3 = 30)

1. LVDT
2. Calibration
3. Spectroscopy
4. Static errors
5. Hygrometer
6. Actuator
7. Cascade Control
8. Rotameter
9. Transducer
10. Pitot tube
11. Tachometer
12. Wattmeter