

No. of Printed Pages : 03

Roll No.

D205

B.Tech. EXAMINATION, May 2019

(Fourth Semester)

(B. Scheme) (Main & Re-appear)

(AER)

AER210B

AIRCRAFT INSTRUMENTATION

Time : 3 Hours]

[Maximum Marks : 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

(3-05/7) M-D205

P.T.O.

Unit I

1. Explain the working of VTVM digital voltmeter with the help of neat diagram/circuit. **15**

2. Explain the method of measurement of power, phase angle and power factor. **15**

Unit II

3. Explain the method of measurement of harmonic and intermodulation distortion. How does distortion analyser work ? **15**
4. Explain the working of Bourdon-tube pressure gauge. Also explain the principle of operation of the tube. **15**

Unit III

5. Name various primary flight instruments. Discuss the Gyroscope and its properties. **15**

6. Explain the working of synchro torque pressure indicating system with the help of a neat figure. **15**

Unit IV

7. Explain the working of High-range, long-scale displays with the help of figures. **15**
8. Explain engine indicating and crew alerting systems and flight management systems. **15**