

PARUL UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
Diploma Engineering, Mid semester Examination

Semester: 3rd
Subject Code: (03613209)
Subject Name: Aircraft Instruments

Date: (02/08/2022)
Time: (1hr: 30min)
Total Marks: 40

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. English version is considered to be Authentic.

- Q.1 Answer any six out of Ten. (2 Marks Each) (12)**
1. Why heaters are located in pitot tube?
 2. Enlist the gyroscopic instruments.
 3. Why static port is important?
 4. Enlist the Navigation instruments.
 5. What is attitude indicator?
 6. What is ram air?
 7. What is PFD?
 8. Enlist Six pack instruments.
 9. What are the various flight panels in aircraft?
 10. What are the piston engine instruments?
- Q.2 A) Write a short note on: Engine instruments (03)**
- OR**
- A) Explain various types of airspeed in detail. (03)
B) Enlist the various flight instruments and its use in flight. (03)
- OR**
- B) Explain the selection criteria for the location of pitot static tube. (03)
C) Explain the markings with color coding in ASI. (04)
- OR**
- C) Explain types of altitude in brief. (04)
D) Draw the neat sketch of Pitot static system. (04)
- Q.3 A) Write a short note on aircraft Instruments. (03)**
B) Short note on: Altimeter. (03)
C) Explain airspeed indicator with neat sketch. (04)
D) Explain Vertical Speed Indicator in detail. (04)