

## PROPELLER END TERM EXAMS

1. Define the following terms as applied to aircraft propellers.

- i) Automatic propeller
- ii) Ground adjustable propeller
- iii) Synchrophasing system
- iv) Propeller governing (4marks)

b) State six typical safety devices found on an aircraft propeller. (6marks)

c) State five methods of increasing a propeller efficiency stating their limitations. (10marks)

2. a) Explain the relationship between the following aircraft propeller terms. Illustrate your answers.

- i) Slip
- ii) Effective pitch
- iii) Geometric pitch (5marks)

b) Using a labeled sketch, describe the construction and operation of an aircraft speed governor. (15marks)

3. With the aid of sketches, explain the forces acting on an aircraft propeller in flight. (20marks)

4. Describe the procedure of carrying out a minor repair on a composite blade of an aircraft propeller. (10marks)