

pretation of weather charts; elementary knowledge of Indian climatology and of meteorological procedures relating to aviation.

(iv) *Aircraft and Engines*—including elementary knowledge of aerodynamics and theory of flights; general principles and elementary knowledge of design, construction, maintenance and operation of aircraft, engine and instruments; ancillary systems (*e.g.* fuels, hydraulic, etc. etc.) and emergency systems, installations and equipment; basic knowledge of fuel and lubricants; loading of aircraft, weight distribution and its effect on flight characteristics; operating limitations, handling care and preflight inspection. The examination shall also include questions pertaining to the class and the type of aeroplane for which an aircraft rating is desired;

(v) *Signals (Practical)*—Transmission and interpretation of aural and visual signals;

(vi) *Seamanship*—important abbreviations use in Admiralty charts; Regulations for preventing collisions at sea; lights to be carried by ships and seaplanes; Uniform system of Buoyage; A general knowledge of Tides; Meaning of High Water (HW), Low Water (LW), Mean High Water Springs (MHWS), Mean High Water Neaps (HMWN), Mean Low Water Springs (MLWS), Mean Low Water Neaps (MLWN) and chart Datum applicable to aircraft rating to include amphibians and seaplanes.

(d) *Experience*.—He shall produce evidence of having satisfactorily completed as a pilot of an aeroplane within a period of 3 years immediately preceding the date of application for licence not less than 250 hours of flight time, which shall include:—

(i) not less than 150 hours of flight time as Pilot-in-Command of which not less than 50 hours shall have been completed within a period of 12 months immediately preceding the date of application for licence;

(ii) not less than 5 hours of cross-country flight time as dual and 25 hours of cross-country flight time as Pilot-in-Command including one flight of not less than 300 nautical miles in the course of which not less than 2 full stop landings at different points shall be made;

(iii) not less than 10 hours of instrument time of which not more than 5 hours may be on an approved synthetic flight trainer;

(iv) not less than 5 hours of flight time by night including a minimum of 10 take-offs and 10 landings as Pilot-in-Command and as sole manipulator of controls carried out within 6 months immediately preceding the date of application for licence.

(e) *Other Requirements*.—He shall be in possession of a current Certificate of Competency for operation of radio telephony apparatus on board an aircraft as issued by the Ministry of Transport and Communications under the Indian Wireless Telegraphy (Commercial Radio Operators Certificates of Proficiency and licence to operate Wireless Telegraphy) Rules, 1954.

(f) *Skill*.—He shall have demonstrated his competency to the satisfaction of the Examiner by undergoing the following flying tests on the type of aeroplane to which the application for licence relates within a period of 6 months immediately preceding the date of application—

(i) General Flying Test by Day shall include preflight inspec-