

established his medical fitness on the basis of compliance with the requirements as notified by the Director General under Rule 39 B;

(c) *Knowledge*.—He shall pass a written examination in the following subjects—

(i) *Air Regulations*.—including flight rules, air traffic control practices and procedures and regulations concerning operations of private aircraft;

(ii) *Air Navigation*.—elementary principles, including elementary knowledge and use of aeronautical maps and charts, time, magnetic compasses, simple navigational instruments, radio aids, visual and D. R. Navigation and simple flight planning.

(iii) *Aviation Meteorology*.—elementary aviation meteorology including significance of aerodrome meteorological observations and warnings; elementary knowledge in reading meteorological charts and of meteorological procedures relating to cross-country flights; salient features of Indian climatology;

(iv) *Aircraft and Engines*.—Including elementary knowledge of aerodynamics and theory of flight, aircraft, engine, instruments, 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) *Seamanship*.—Important abbreviations used in Admiralty charts; Regulations for preventing collisions at sea; lights to be carried by ships and seaplanes; Uniform system of Buoyage; Meaning of High Water (HW), Low Water (LW), Mean High Water Springs (MHWS), Mean High Water Neaps (MHWN), Mean Low Water Springs (MLWS), Mean Low Water Neaps (MLWN) and chart Datum—applicable only to aircraft rating to include amphibians and seaplanes.

(d) *Experience*.—He shall produce evidence of having satisfactorily completed as a pilot of an aeroplane not less than 40 hours of flight time, dual and solo which shall include—

(i) not less than 20 hours of solo flight time;

(ii) not less than 5 hours of cross-country flight time, as the sole occupant of an aeroplane, including a round-trip flight to an aerodrome not less than 75 nautical miles distance from the point of departure and including not less than 2 full-stop landings at different points along the route;

(iii) not less than 10 hours of solo flight time completed within a period of 12 months immediately preceding the date of application for the licence and must include the cross-country flight time mentioned in clause (ii).

NOTE.—1. "Cross-country flight for purposes of sub-clause (ii) means a flight to a point beyond a radius of 40 nautical miles from the aerodrome of departure."

2. Flight time required under sub-clauses (ii) and (iii) may be included in the total solo flight time indicated in clause (i).

(e) *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 such application—