

(b) having completed as a Flight Navigator not less than 20 hours of flight time during which he shall have navigated an aircraft by the use of dead reckoning, radio bearings and such other aids as are available to him and shall have made 10 astronomical observations of heavenly bodies and having appropriately and satisfactorily used the results of those observations in navigating an aircraft within a period of 12 months immediately preceding the date of application for renewal, or in lieu thereof; having satisfactorily completed the tests as laid down in clause (c) of paragraph 1 within the same period.

4. Privileges.—The privileges of the holder of a Flight Navigator's licence shall be to act as a Flight Navigator on any flight where a Flight Navigator is required to be carried in accordance with rule 38A.

SECTION P. STUDENT FLIGHT ENGINEER'S LICENCE

1. Requirements for the issue of licence.—An applicant for a Student Flight Engineer's Licence shall satisfy the following requirements—

(a) *Age.*—He shall be not less than 21 years of age on the date of application;

(b) *Medical Fitness.*—He shall produce on a prescribed proforma a certificate of physical fitness from an approved Medical Board after undergoing a medical examination during which he shall have established his medical fitness on the basis of compliance with the requirements as notified by the Director General under rule 39B;

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

(i) *Regulations and Procedure.*—including rules, regulations and procedure in force so far as duties of Flight Engineers are concerned;

(ii) *Aircraft and Engines.*—including elementary knowledge of aerodynamics and theory of flight, general principles of construction, maintenance and functioning of airframes, power plants and installed equipment on aircraft (fuel hydraulic and electrical systems, etc.), normally requiring a Flight Engineer, type of fuel, refuelling procedure, preparation of reports illustrated by sketches if necessary describing replacement or repair required in the case of damage.

NOTE.—A candidate possessing AME's licence with appropriate aircraft rating may be exempted from the whole or part of the written examination at the discretion of the Director General.

(d) *Experience.*—He shall produce evidence of having satisfactorily completed:

a minimum of 3 years practical experience to the satisfaction of the Director General in maintenance and repair of aircraft and engines out of which 12 months shall have been in the maintenance and repair of multi-engine aircraft having engines rated at not less than 800 B.H.P. each; out of these 12 months, not less than 3 months shall have been spent on maintenance and repair of the type of aircraft which is desired to be included in the aircraft rating of his licence, within a