

(i) *Air Regulations*.—including general flight rules, air traffic control practices and procedures and regulations concerning operation of aircraft: search and rescue, rules concerning air-transit, customs and health; knowledge of aerodromes, flight information regions, control zones, airways, communication and navigational facilities; International Conventions of Air Navigation and international conferences and agreements.

(ii) *Air Navigation*.—including the form of the Earth, Maps and Charts—Definitions, units and formulae used in air navigation: projections, aeronautical maps and charts—their construction, properties and use;

Flight Navigation.—preflight planning and en route flight planning: keeping of navigation log, navigation by dead reckoning, by use of aeronautical maps by radio/radar and celestial observations; methods of pressure pattern navigation, grid navigation and navigation in higher latitudes and polar regions, tides and searches;

Instruments.—Magnetism: principles of construction and operation including calibration and use of instruments and compasses and the errors to which they are subject and where applicable the methods of correction;

Radio/Radar.—Knowledge and use of facilities, equipment and installations including procedures in current use for air navigation;

Astronomical Navigation.—Celestial sphere, definitions, movement of heavenly bodies and their selection and identification for the purpose of observation and reduction of sights; Use of aeronautical tables and air almanacs: Use of astro-navigation instruments and their errors;

(iii) *Aviation Meteorology*.—intermediate aviation meteorology with special emphasis on atmospheric pressure, density, altimetry and upper wind circulations; knowledge of aviation weather codes and plotting; aircraft observation procedures: synoptic meteorology including simple analysis and interpretation of weather charts; principles of aerologation; elementary world climatology; detailed knowledge of Indian climatology and of meteorological procedures relating to aviation.

(iv) *Signals (Practical)*.—transmission and interpretation of aural and visual signals.

2. Validity.—The period of validity shall commence from the date of issue or renewal of the licence. The Licence shall be valid for a period not exceeding 12 months from the date of a medical examination, except when a candidate has been medically examined during 30 days immediately preceding the date of expiry of the licence, full period of validity may be allowed from the date of expiry. The total period of validity in any case shall not exceed 24 months from the date of commencement of the examination referred to in clause (c) or paragraph 1.

3. Renewal.—The Licence may be renewed on receipt of satisfactory evidence of the applicant having undergone a medical examination in accordance with clause (b) of paragraph 1 and subject to satisfactory exercise of privileges.