

In order to qualify, candidates will be required to:—

- (a) send plain language morse signals on an ordinary telegraph key for two and a half minutes at the prescribed speed. The correct formation of characters, the correctness of spacing, freedom from errors, and the ability to recover from breakdowns will be taken into account;
- (b) receive and transcribe legibly, plain language morse signals at the prescribed speed from a double headgear telephone receiver or loud speaker used in conjunction with an audio-oscillator. Where an audio-oscillator is not available, a buzzer may be used;
- (c) know the functions of the various components used in amateur radio transmitters of all descriptions and the operating principles of radio receivers;
- (d) know the most common faults in radio transmitters and receivers and the methods usually adopted to remedy them;
- (e) know how to vary the transmitter power and the radiated frequency;
- (f) know how to test and charge accumulators and the usual steps taken to keep them in good condition;
- (g) possess an elementary theoretical knowledge of electricity, magnetism, high frequency circuits, power supplies, and radio principles generally;
- (h) indicate a good general knowledge of the contents of this Handbook.

There will be one telegraphy test and a written examination. The written examination will consist of one paper containing nine questions on theory (of which only seven should be attempted) and one paper containing five questions on regulations (of which only three should be attempted).

Two and a half hours will be allowed for completion of the paper on theory and half an hour for completion of the paper on regulations.

To secure a pass, a candidate must obtain at least 70 per cent. of the total marks allotted in each subject.

Candidates who are the holders of the Broadcast Station Operator's Certificate of Proficiency may be granted an exemption from the theory portion of the examination for the Amateur Operator's Certificate of Proficiency.

Copies of previous examination papers may be obtained from any Wireless Branch on payment of a fee of 6d. per set. The undermentioned text books will be found useful in connection with the study of the technical portion of the examination:—

**Radio Theory.**—The "Radio Amateur's Handbook" (A.R.R.L.), "Radio Handbook," by Frank C. Jones, and "The Amateur Radio Handbook," by Incorporated Radio Society of Great Britain.

**Electrical Theory.**—The portions of "Admiralty Handbook of Wireless Telegraphy" 1938, Volume 1, enumerated hereunder:—Paragraphs 23-71, 76-89, 101, 102, 107-140, 145-149, 151, 153, 164-167, 169, 175-180, 182, 184-189, 278-282, 289, 290, 306, 332, 333, 349-352, 354, 360, 363, 367, 368, 371-385, 387-389.