

OTS 99

## Report on multiple-choice Question Paper

Paper: 7730-001 Novice Radio Amateurs Examination Examination date: 11 September 2000

1 Receivers and receiving techniques 2 Components, applications and units 3 Measurements 4 Propagation and antennas	5 3	All the questions in this section were very well answered by most of the candidates.  Fewer than one third of the candidates answered correctly a question
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4 Propagation and		about the value of capacitors. Most candidates thought that 0.0001µF and 1nF were smaller than 10pF.
4 Propagation and		26% of those taking the examination thought that a tuned circuit was required to operate as a detector in a receiver.
1	4	A question about measuring the input power of a transmitter was not well answered; 39% of the candidates <i>divided</i> the applied voltage by the current in order to calculate the input power to the power amplifier.
	5	Most questions were well answered but there was some difficulty with one question, 45% of candidates thinking that the feeders to all antennas should be of coaxial construction.
5 Transmitters and transmitting techniques	10	In one question, only 41% of the candidates recognised a crystal controlled oscillator as producing the most stable transmitted signal. 52% thought that the most stable signal would be produced by a b.f.o. or v.f.o. The other nine questions in this section were very well answered.
6 Operating techniques	6	Three questions on operating techniques were not well answered.
		26% of the candidates thought that the transmitter power need not be recorded in the novice station log book.
		The abbreviation DE, when sent in Morse, was correctly recognised by 51% of candidates to be used prior to giving ones own call sign. 29% thought it was the break sign.
		Again, when confronted on the air by an unidentified intruder using abusive language, 48% of candidates said they would tell the intruder that he would be reported to the Radiocommunications Agency. 52% of the candidates correctly chose to disregard the intruder and continue their contact.

Syllabus Topic or Objective  continued  7 Station layout  8 Construction  9 Safety  10 Licensing conditions	Number of items  1 1 2 7	Comments on performance of candidates  This question was well answered by most candidates.  Only one third of the candidates answered correctly the reason for tinning the tip of a soldering iron.  Both the questions on safety were well answered by most candidates.  Candidates had a good understanding of the conditions for the Licence. All the questions in this section were very well answered.
General comments on the paper		One question on the Amateur Radio Licence Schedule was excluded from the scoring as there was no possible answer among the options given. The paper was therefore marked out of a total of 44.  Candidates were generally well prepared for the examination. Despite the disappointing number of entries, the detailed analysis showed that of the 72 candidates, 62 (86%) of them were successful.  The next examination in this subject is scheduled to take place at approved centres on Monday, 11 December 2000. The City and Guilds fee for the examination is £13.05.  Reports for the Radio Amateurs Examination (7650) and the Novice Radio Amateurs Examination (7730) are normally available on the Internet about three weeks after the date of each examination at http://www.g4dmp.co.uk/.