

QUES. 1 of examination paper is fully covered by Kirkland's No. 1.

QUES. 2 is fully covered by Kirkland's No. 7.

QUES. 3 is fully covered by Kirkland's No. 3 (first part). The rider to this question is fully covered by Kirkland's No. 4, even to the principles of arithmetic involved.

QUES. 6 is fully covered by Kirkland's No. 10. The compound microscope is the one most commonly used, and is therefore the *common* microscope. When a distinction is observed between the two kinds of microscopes, they are known as the *simple* or *single*, and the *compound*. Moreover, a question on the microscope is no *type* or *test* question in Optics. Balfour Stewart in his Physics, a book of 360 pages, devotes 74 pages to Optics, and has less than *one-third* of a page on the microscope. Parkinson's Optics, a book of 300 pages, the University text-book, contains only 3 pages on the microscope and 28 pages on the telescope.

QUES. 7 is fully covered by Kirkland's Nos. 18 and 19.

QUES. 8 is fully covered by Kirkland's Nos. 21 and 22.

QUES. 9 is fully covered by Kirkland's No. 26.

---

Mr. Kirkland's questions were given in two papers; the first chiefly on heat, the second chiefly on *light* and *electricity*. It is evident that he intended the two papers to cover the whole limit prescribed for first class certificates ("a good general acquaintance with the subjects of *heat, light* and *electricity*"); and therefore, for convenience in referring to them, they are numbered from 1 to 27 in the comparisons given above. It is worthy of remark that Prof. Croft, in his evidence before the commissioner, besides recognizing the remarkable similarity between Kirkland's questions and the examination papers, stated in very positive terms that *such a similarity could not occur in the ordinary course of teaching*.

A technical knowledge of the sciences involved is not necessary to be struck with the following points in the preceding comparison:—

- 1st. The striking similarity of phraseology throughout between the examination papers and Kirkland's questions.
- 2nd. The comprehensiveness of Kirkland's questions, as compared with those on the same subject on the examination papers.
- 3rd. The order of the questions on the two papers. Here we have Kirkland giving questions 3 and 4, 6 and 7, 18 and 19, 21 and 22, corresponding to consecutive numbers on the examination paper; and the last question on the examination paper is the same as the last but one given by Kirkland. Now the order of subjects on McLellan's paper is not the order in which the subjects come in any school or college text-book in use; but, singularly enough, it is nearly the order of subjects on Kirkland's papers.