

SECTION W.—*Hydrostatics.* Re-examination on, and completion of the former course.....Marks, 250.

SECTION X.—*Mechanism and the Steam Engine (Goodeve, and Notes.)* Omit special applications such as those to weaving and mangling machines. Omit Chapter III on Teeth of Wheels.

N. B.—*This section may be substituted for any three of the above sections, excepting Section V on applied Mechanics, in which case 750 Marks will be allotted to it.*

APPENDIX F 2.

ROYAL MILITARY COLLEGE OF CANADA.

SYLLABUS OF THE COURSE OF MILITARY ENGINEERING.

Total Marks..... { Obligatory, 6,000.  
                                  { Voluntary, 2,000.

The theoretical course of Military Engineering is partly obligatory and partly voluntary. The practical course or Engineering drill, is entirely obligatory.

*Text Books.*—The following is a list of the text-books in use:—

Guide to the Course of Military Engineering pursued at the R. M. C., Canada.

(*In preparation.*)

Text-book of Fortification and Military Engineering, for use at the R. M. A., Woolwich. Parts I and II.

Instruction in Military Engineering, S. M. E., Chatham. Part III, Bridging; and Part V, Miscellaneous.

Explosives, their use for Military Engineering purposes, including elementary electrical testing. (*In preparation.*)

*General Summary of Subjects.*

Fortification,—

- Field Fortification.
- Permanent Fortification.
- Semi-Permanent Fortification.
- Attack and Defence of Fortresses.

Pioneer Duties,—

Construction, demolition and restoration of communications for the conveyance of men, horses and materials, and for the transmission of messages.

Camp Duties.

*Method of Instruction.*—The above subjects are taught theoretically, and, as far as possible, practical instruction is given in them. The theoretical instruction is carried out by means of lectures and personal instruction, explanatory of the text-books above quoted, and of other matter given in the form of notes from time to time, as required. The Cadets have to execute numerous plates and exercises, and to write out carefully the notes given to them.

The practical instruction or Engineering drill has to be carried out by executing the various works, etc., to scale, owing to want of time and labour; but, whenever possible, the work will be done full size. In this part of the course special attention will be given to instructing Cadets in superintending.

The theoretical part of the course will be studied in all four classes.

The practical part will be taken up during the two last years of residence (2<sup>rd</sup> and 4<sup>th</sup> terms).