



FRIDAY, AUGUST 27, 1869.

[CIRCULAR.]

DOWNING STREET, 13th July, 1869.

SIR,—

With reference to my Circular Despatch of the 3rd ultimo, I transmit to you Copies of the Special Regulations therein referred to, for the examination in practical skill of Candidates for the Whitworth Scholarships.

I have the honor to be, Sir,

Your most obedient humble Servant,  
GRANVILLE.

The Officer Administering  
The Government of  
Prince Edward Island.

SCIENCE AND ART DEPARTMENT OF THE  
COMMITTEE OF COUNCIL ON EDUCATION,  
SOUTH KENSINGTON.

At South Kensington, the 29th day of May, 1869. By  
the Right Honorable the Lords of the Committee  
of Her Majesty's Most Honorable Privy  
Council on Education.

AWARD OF WHITWORTH SCHOLARSHIPS, PRACTICAL  
EXAMINATION, ETC.

1. My Lords have, in concert with Mr. Whitworth, made the following rules for awarding the Whitworth Scholarships this year, and for holding the examinations in Handicrafts and in the practical use of tools.

2. It was decided that the Scholarships were to be awarded according to the results of the examination of the Science and Art Department in the following subjects as defined in the Science Directory:—(1) Elementary Mathematics; (2) Higher Mathematics; (3) Theoretical Mechanics; (4) Applied Mechanics; (5) Practical Plane & Solid Geometry; (6) Machine Construction and Drawing; (7) Acoustics, Light and Heat; (8) Magnetism and Electricity; (9) Inorganic Chemistry; (10) Metallurgy; and according to the skill shewn by the competitors in a special examination in the following Handicrafts—(1) Smith's work; (2) Turning; (3) Filing and Fitting; (4) Pattern Making and Moulding, or in the use of the following classes of tools—the axe, the saw and plane, the hammer and chisel, the file, or the forge.

3. Mr. Whitworth desired that the number of marks obtainable in the theoretical subjects and those obtainable by the most skilled workman should be about equal. And it was decided that no candidate should be eligible to obtain a Scholarship who had not shown a satisfactory knowledge of Elementary Mathematics, Elementary Mechanics, and Practical Plane and Solid Geometry, passed in Freehand Drawing, and proved his power to use one at least of the before-mentioned classes of tools.

4. The relative position of candidates as regards the theoretical subjects will be determined by affixing the same scale of marks to the several grades of success as is laid down for the competition for Royal Exhibitions, viz:—

|  | MARKS. |
|--|--------|
| For a 3rd class in Elementary Stage - - -          | 1      |
| 2nd do do - - -                                    | 3      |
| 1st do do - - -                                    | 5      |
| 2nd class in Advanced Stage - - -                  | 5      |
| If previously successful in Elementary Stage - - - | 7      |
| 1st class in Advanced Stage - - -                  | 7      |
| If previously successful in Elementary Stage - - - | 9      |

And 5, 4, 3, 2, and 1 marks in addition to the first five candidates in the Advanced Stage if they obtain more than 90 per cent. of marks.

|                            | MARKS. |
|----------------------------|--------|
| For honors—2nd class - - - | 14     |
| 1st class - - -            | 17     |

“Good” in Freehand Drawing will count as 1 mark, and “excellent” as 3 marks.

5. The “satisfactory knowledge\*” required for passing in the subjects mentioned in § 3 will be taken to mean the obtaining of a first class in the elementary stage of Elementary Mathematics, a second class in the elementary stage of Theoretical or Applied Mechanics, a second class in the elementary stage of Practical Plane and Solid Geometry, and a “good” in Freehand Drawing.

6. The results of the examination in all the theoretical subjects will be published about the middle of June. It will then be possible to define within comparatively narrow limits the candidates amongst whom the competition will really lie. These will be directed to hold themselves in readiness to undergo the practical examination which will be conducted at a certain number of centres by qualified persons.

7. The practical examination is of two kinds. There is the examination of the handicraftsman or skilled artisan, and there is the *qualifying* examination in the use of certain tools.

8. The examiners will decide on the number of marks to be awarded and the position of the skilled artisans by the rate of wages, etc., which they have been receiving (as vouched by the certificates of their employers), by work specially executed for the occasion, or by an inspection of work upon which they may have been employed.

9. The examination in the use of tools will be the performance of one or more of the following pieces of work.

THE AXE.

- a. To square up a block of wood a foot long and six inches in diameter.
- b. To make a spoke for a cart wheel.
- c. To be able to shaft an axe.
- d. To cut out wheel spokes ready for fitting into nave.

THE SAW AND PLANE.

- a. To saw from a plank two pieces of timber three feet long and three inches square, and plane them up true.
- b. To make a box 18" long x 9" wide x 9" deep, plained up true and the joints dovetailed together.
- c. To saw out and plane up two parallel strips 2' 0" x 2" x  $\frac{3}{8}$ ".

THE HAMMER AND CHISEL.

- a. To chip a piece of cast-iron six inches square over on one of its surfaces ready for filing.
- b. To cut out of Sheet iron (any guage) a figure or letter of any size from 1" to 6"

THE FILE.

- a. To file two sides of a cast-iron inch cube as flat as possible with a Stubbs's twelve-inch second-cut file, the stroke of the file not being less than nine inches.
- b. A wrought iron hexagonal nut  $\frac{1}{2}$ " or 1" to be filed up true.
- c. To file up two parallel strips, iron or steel.
- d. To file up pocket square as true as possible.

\*The papers of candidates who have taken the Honors papers and failed in obtaining a class will *this year* be specially considered, and if it shall appear that the candidates show such knowledge as would undoubtedly have placed them in the first class, in the Elementary stage, they will be passed: that is to say they will be considered to have satisfied the condition of showing a “satisfactory knowledge,” but no marks will be given for these papers in the competition.