

2 TO 4 P. M., TUESDAY, 5TH JULY.

### USEFUL KNOWLEDGE.

1. What are the most common evil effects of the use of tobacco? Why is it that some young people may yet be found who venture to form the habit?
2. Supposing the ordinary use of tobacco and alcoholic drinks were not injurious but simply unnecessary, show the magnitude of their cost to the Dominion, and the better use to which such money might be put.
3. Describe the origin of alcohol, and explain why it is still used, although known to be injurious in so many ways.
4. Give the names of ten plants which do not flower until after the first of June; and of three insects and two birds injurious to man; of two insects and three birds useful to man.
5. Name the stones, metals and other minerals which you have had lessons upon, and which you have examined carefully yourself.
6. If a garden should be made on your school grounds what kind of plants, flowers, etc., would you like to see grown in it for experiment? Describe your observations on the germination or early growth of some plant from the seed.
7. Give an account of (a) the formation of soil, or (b) the cause of fog, mist and rain, or (c) the different kinds of fish in the province, or (d) the different kinds of mammals, or (e) our mushrooms and toadstools.
8. Write the music of any song you may have sung, in the tonic sol-fa notation, and explain the signs indicating the lengths of the various notes. (Or tonic sol-fa Certificate.)
9. Discuss the advantages of knowing and practising while of school age either (a) military drill, (b) swimming, (c) sewing, (d) cooking, or (e) the use of tools.
10. Describe any experiment you have conducted in physics or chemistry, or wood-work, or any practical work done showing skill acquired in using the hand or the mind.

## PROVINCIAL HIGH SCHOOL EXAMINATION.

(See Comments and Regulations of the Council of Public Instruction, J.—1 to 14, pages xxxi to xxxix, Manual of 1895 and Amendments in later JOURNALS OF EDUCATION.

### GRADE D, (IX).

9 TO 10 A. M., WEDNESDAY, 6TH JULY.

#### ALGEBRA, D.

1. Find the value of  $(5a - 3b)(a - b) - b\{3a - c(4a - b) - b^2(a + c)\}$  when  $a = 0$ ,  $b = -1$  and  $c = \frac{1}{2}$ .
2. (a) Given  $7x - 5[x - \{7 - 6(x - 3)\}] = 3x + 1$ , find  $x$ .  
(b) How long will it take a person to walk  $b$  miles if he walk 20 miles in  $c$  hours?
3. (a) Given  $\frac{5x}{6} - y = 3$  and  $x - \frac{5y}{6} = 8$ , find  $x$  and  $y$ .  
(b) Find two numbers whose sum is 34, and whose difference is 10.
4. (a) Write down the cube of  $(a - x)$ .  
(b) Find the square root of  $x^4 + \frac{1}{4}x + 2x^3$ .
5. A number consists of three digits, the right-hand one being zero. If the left-hand and middle digits be interchanged the number is diminished by 180; if the left hand digit be halved, and the middle and right hand digit be interchanged, the number is diminished by 336: find the number.