GENERAL KNOWLEDGE.—VIII.

2 to 3.30 p. m., Friday, 26 June, 1914.

(*Ten* questions *only*).

(A certificate for a full course in *Mechanic* or *Domestic* science for a *year*, may count as three questions; but 30 points can be given only for the highest possible excellence in the course, 15 being the value of a merely passable course. In other words, the certificate of any such course shall be valued from 0 to 30, according to the evident excellence of the candidate's training. Candidates receiving values for such certificate can receive no value for the answering of questions below on the subject of such certificate. If they answer more than *seven* qyestions below, they should get credit for the *seven* highest values. Questions 7 to 10 must be answered by all).

1. Indicate with drawings any work which you learned to do with tools; *or*, household work such as sewing, cooking, gardening, etc. Describe the circumstances, whether at home or in school, under which you learned to do such work; *or*, present a certificate of a full course as indicated in the paragraph above.

2. Name and describe breifly the most common weeds. What is a weed?

3. Give a description and life history of any two of the following:—(*a*) June beetle; (*b*) cabbage butterfly; (*c*) the gypsy moth; (*d*) the toad; (*e*) the white throated sparrow; (*f*) the crow; (*g*) the apple tree bark louse; (*h*) the snail.

4. What do you know about the rocks and soils of Nova Scotia?

5. What are wind and frost doing to change the surface of the earth so far as you have noticed?

6. What are the benefits of learning to garden at schools?

7. What do you know about (*a*) the cause of consumption; (*b*) the best way of preventing it, and (*c*) the best way of curing it?

8. (*a*) What kinds of exercise do you like? (*b*) What kinds do you not like?

9. Why do so many people use alcoholic drinks if they are injurious?

10. What other dangerous habits are formed by some people, and why? do you think.

[**Technical Course Subjects** which can be substituted for any questions from 2 to 6 above.]

A. How can a man weighing 150 lbs. hoist a weight of 600 lbs. by simply pulling on a rope?

B. If a hoisting rope broke, and the weight fell 1000 feet, with what velocity would it strike the bottom.

C. How many gases have you seen experimented with? How do they differ from each other?

D. What is the source of the most dangerous gas in mines? How is it dangerous? How can it be detected?

E. How is water in mines dealt with? Explain any kind of a pump. Will any kind do in a mine? If not, why?

F. Why must a mine be ventilated? How?