

GENERAL KNOWLEDGE.—VIII.

2 to 3.30 p. m., Friday, 27 June, 1919.

(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 certificates can receive no value for the answering of questions below on the subject of such certificate. If they answer more than *seven* questions below, they should get credit for the *seven* highest values. Questions 4, 5 and 6 must be answered by all).

- 1, 2 and 3. 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.
4. What are War Savings Stamps? What advantage are they to Canada? What to the one buying them?
5. "The smoking habit thru the use of matches is responsible for many destructive fires every year." (a) Are there other reasons why the habit should not be formed? State them. (b) When so many people form the habit, does not that mean that it may be found to be useful to many? Discuss this view.
6. What does the policy of the prohibition of alcoholic beverages mean to bring about? What argument can be made "for" or "against" the policy?
7. What bad weeds, bad insects and bad birds are troublesome on your place, or on places on the way to school? How should these be dealt with according to your observations?
8. Explain why earth is so very different at different places,—stony, sandy, gravelly, clayey and fine and red or dark. In other words how did these soils come into their present place in their present form?
9. Compare the advantages of any one of the following occupations against the others:—Farming, Gardening, Fishing, Mining, Lumbering, Carpentry, Mason Machine Shop, Engineer, Sailor, Soldier, Printer, Railway Conductor, Bank Clerk, Lawyer, Teacher, Doctor. In other words, make out a good case for your favorite occupation.
10. What wild plants and birds do you know? Write a few words on each showing what you know about them.
11. Explain one of your most interesting science experiments.
12. What do you think to be the more useful subjects you study at school? What the most useless? Give short reasons why.
13. Make a drawing to show how a coal mine is ventilated. Explain what would happen if the ventilation scheme would not work, and why.
14. How should coal mines be lighted? Explain why?
15. The water cannot run out of a mine. Explain how it can be got out; and what would happen if the apparatus failed.
16. What is the difference between a force-pump and a suction-pump, and when should the one or the other be used?
17. What do you know about gases in mines?