

ACADIA COLLEGE.

FACULTY OF INSTRUCTION.

REV. A. W. SAWYER, D. D., President,

Professor of Moral Philosophy and Evidence of Christianity.

REV. E. A. CRAWLEY, D. D., D. C. L., Professor Emeritus. D. F. HIGGINS, M. A., Ph. D., Professor of Mathematics

R. V. JONES, M. A., Ph. D., Professor of the Greek and Latin Languages.

REV. E. M. KEIRSTEAD, M. A., Professor of English Literature, Logic and Psychology.

A. E. COLDWELL, M. A., Professor of the Natural Sciences, and Curator of the Museum.

L. E. WORTMAN, M. A., Professor of Modern Languages and History.

THE NEXT SESSION will open **THURSDAY, September 27th.** Matriculation Examination will be held on **WEDNESDAY, the 26th.** Applications for entrance or for information respecting courses of study may be made to the President.

3. Name and describe the parts of a plant known as the organs of vegetation.

4. How are clouds formed? Name the different kinds.

5. Of what substances is the wheat plant composed?

6. What is wind? Explain how it is produced.

7. Describe the life history of any one of the following: The potato bug, the sheep bot-fly, the clover seed midge, the butterfly.

8. Name the principal forest trees of Nova Scotia. Which do you consider the best for shade or ornament?

9. How do birds differ from reptiles.

10. Tell what you know about the amphibia of this province.

11. What are the chief properties of water?

12. Name the insects which you think are the most injurious to the farmer.

13. How do clothes keep u warm? Which is the warmest clothing, and why?

14. In what different forms do plants yield food for man? Give examples of each form.

15. What animals are considered the lowest of the mammalia, and where are they found?

16. Write a note on any one of the following: Moose, eagle, fox, bear, squirrel, robin

[The following is the answer of a candidate to question 7, above, verbatim:

"The potato bug, which is very injurious to the farmer, is supposed to come down in the rain. The extent of its life is unknown."

The candidate was a young lady from a good agricultural district of the country, and is very probably a farmer's daughter.]

GEOGRAPHY.

1. Explain the terms, *isthmus*, *water-shed*, *continent*, *volcano*, *glacier*, *cape* and *plain*.

2. Name and locate the peninsulas of North America. Name the rivers of Europe, their direction, and the waters into which they flow.

3. Name the counties of Nova Scotia and Cape Breton washed by the Atlantic, and also state what counties have railways running through them.

4. In a voyage from Port Arthur to Windsor, N. S., through what waters and near what headlands would you pass?

5. Where and what are the following: Blomidon, Escuminac, Saguenay, Galt, Vancouver, Milwaukee, Rimouski.

Roanoke, Matapan, Ladogo, Seine, Hecla, Ganges, Tasmania, Crimea, Congo, Cheviot and Humber.

6. Name the *ten* largest cities of the United States in the order of their size, and also give the State in which each is situated.

7. Describe the surface of the British Isles.

8. What waters are connected, and what lands separated, by the following straits: Gibraltar, Dover, Belle Isle, Hudson, Magellan, Babelmandeb and Bosphorus.

9. Draw an outline map of North America.

ARITHMETIC AND ALGEBRA.

1. Find the amount of the following bill of goods in dollars and cents, the shilling being worth $24\frac{1}{2}$ cents:

124 yds. grey cotton at $5\frac{1}{2}$ d. per yd.

62 " stair carpet at 4s. 3d. "

156 " Brussels do. at 6s. 10d. "

96 " Scotch tweed at 4s. 6d. "

2. Add together $\frac{1}{2}$ of a ton, $\frac{1}{4}$ of a cwt., $\frac{1}{12}$ of a lb. and $\frac{1}{2}$ of an oz.

3. Find the value of

$$\left(\frac{1}{3} + \frac{1}{4}\right) \frac{20\frac{1}{2}}{3\frac{1}{2} + 2\frac{1}{2}}$$

and state and explain the rule for reducing a vulgar to a decimal fraction, and simplify

$$\frac{2.02 + 6.48}{3.5} (4.27 + 6.6).$$

4. How many bushels of grain will a bin hold, which is 10 ft. long, 4 ft. 6 in. wide, and 5 ft. 3 in deep?

5. If $1\frac{3}{4}$ bush. of oats cost 60c., what will 25 bush. 2 pks. 4 qts. cost.

6. A wholesale merchant sells goods at a discount of 75 per cent. on the retail price, he then allows a further discount of 25 per cent. for cash, what will he receive for goods the retail price of which is \$200?

7. A man walks a certain distance, and rides back in 3 hrs. 45 min.; he could ride both ways in $2\frac{1}{2}$ hrs. How long would it take him to walk both ways?

8. Which is the more profitable and by how much, to buy flour at \$5.00 per bbl. on 6 months' credit or at \$4.90 at 3 months' credit, money being worth 6 per cent.

9. Write the principal signs used in algebra, and explain the significance of each.

10. From $7x^3 - 2x^2 + 2x + 2$ subtract $4x^3 - 2x^2 - 2x - 14$, and from the remainder subtract $2x^3 - 8x^2 + 4x + 16$.

11. Simplify $3a - [b - \{a + (b - 3a)\}]$