

Academy Entrance Examinations, N. S.

MATHEMATICS (2 hours.)

[Each numbered question of equal value. Answers without the steps necessary to arrive at them may be considered of no value by the examiner.]

1. Multiply 123456789 by 987654321. (Answer of no value unless exactly correct.)
2. If the quotient is 1234, the divisor 56, and the remainder 7, find the dividend?
3. (a) Find the highest common factor of 876.954, and 132. (b) What is a least common multiple?

4. Simplify $\left(\frac{2\frac{3}{4}-1\frac{1}{2}+\frac{1}{2}}{2\frac{1}{4}-2\frac{1}{2}}\right) \div \left(\frac{2-\frac{1}{2}}{\frac{2}{3} \text{ of } \frac{3}{4}}\right)$

5. Divide .037 by .000008.
6. If an object moving uniformly goes 3 miles, 4 furlongs, 10 rods, 3 yards, 2 feet, 9 inches in one hour, 20 minutes, 30 seconds, how far will it move in 300 days.
7. My agent is allowed 2 per cent on all money which he collects or invests. He sells 1000 barrels of flour for me at \$5.80, and after deducting his commissions he invests the balance in new flour at \$4.90 per barrel. How many barrels does he buy for me, and what commission has he earned?

\$300.

HALIFAX, April 27th, 1892.

Three months after date, for value received, I promise to pay A. B. or order, three hundred dollars. C. D.

When will this note be due? How much must be paid for it when due? If discounted at a bank on the 1st May at the rate of 8 per cent per annum, how much money would be received for it at the bank?

9. Find the values of:

$$\frac{(a+b-c)^2}{2(ab-3c)} \text{ and of } a\sqrt{a^2-(b+c)^2} - (2a-3c)$$

When $a=4$, $b=3$ and $c=2$.

10. Multiply a^2+ax+x^2 by a^2-ax+x^2 and Divide a^3-x^3 by $a+x$.

ENGLISH LANGUAGE. (1½ hours.)

[Value of each single numbered question, 10; of each double numbered question, 20.]

1. Put the following letter into good form, paying attention to punctuation, spacing and beauty of writing, as well as to correct spelling:—

halifax n s april 27 1892

Messers smith and Robinson dear sirs ive recieved your favour ov the 20th inst i wood be oblidgeed if you cood tel me hwere this kwotashun mite be fownd. Cum wan cum awl this roc shal figh from its phurm baize as sune as eye is it from walter scot i have been dilligently seperating the pro-saik peices of poitrey from the phantastick butt have naught bin sucksesful i am respectively yours truely

A. B. MANIKIN.

2. Spell correctly and define the following words: Caret, irruption, monitory, sleight, ceiling, stationery, synonyms, rumatism, filanthropy, akooterments.

3. Write (a) the purals of *potato*, *wharf*, *genus*, *genius*, and *solo*; (b) the past tense and past participle of *give*, *go*, *come*, *be*, and *run*.

- 4 and 5. Analyze the couplet:

He that fights and runs away,
May live to fight another day.

- 6 and 7. Parse the same couplet.

- 8 and 9. Correct the following sentences where desirable, and give the reason or a rule for the correction:

- (a) Who will you give it to, him or I?
- (b) I seen him do it as soon as he took his seat.
- (c) I never saw it rain so heavy before, nor a storm look more beautifully.
- (d) Ain't it a well known fact that the Book of Psalms were written by one man?
- (e) I shall be able to go with you probably; but I will not remain here under any circumstances.

10. "And the widows of Asshur are loud in their wail;
And the idols are broke in the temple of Baal;
And the might of the Gentile, unsmote by the sword,
Hath melted like snow in the glance of the Lord!"
Who wrote this? What is it all about? What does it mean?

GEOGRAPHY (1½ hours.)

1. Name the coast-waters, capes and islands of the Maritime Provinces of the Dominion.
2. Name the British Colonies in the order of their importance.
3. Tell what you know about any one of the following: Argentine Republic, Russia, India, Egypt or Oceania.
4. The chief rivers of Asia, the direction in which they flow, and the waters into which they empty.
5. Name and locate the chief mountain ranges of Europe.
6. By what waters are the following islands surrounded, and near what mainlands are they situated: Manitoulin, Anticosti, Cuba, Man, Jersey, Malta, Sicily, Tasmania, Ceylon, Iceland.
7. Name the chief agricultural products of the following: Spain, Brazil, France, China, Holland, Ontario, California.
8. Where and what are the following: Ainslie, Gaspé, Dundas, Detroit, Ben Nevis, Shannon, Majorca, Lafoden, Mecca, Natal, Malacca, Altai, Orinoco, Canary, Hudson and Panama?
9. Name the chief cities of Great Britain, where situated, and for what each is noted.
10. Draw an outline map of Africa, marking in as many details as possible.

USEFUL KNOWLEDGE. (1½ hours.)

[Only 10 questions to be answered. Value of each 10.]

1. Why should the school-room be well ventilated?
2. What is the use of physical exercise?
3. What do you think are the most common mistakes made in the character of our clothing?
4. Why do young people sometimes learn to smoke? What effect has the habit as a rule?
5. Why are alcoholic drinks more dangerous than other common drinks?
6. Is rock made from ground or is ground made from rock? Explain.
7. What is a fossil?
8. Write a note on coal.
9. What is the air made of?