

GEOGRAPHY.

Note.—Only six questions are to be attempted. A maximum of 5 marks may be allowed for neatness.

1. Account for the formation of rivers, rain, clouds and glaciers. [13.]
2. What separates Ontario from Quebec? From Manitoba? From Kewatin? From Minnesota? From Michigan? From New York? [13.]
3. Name the manufactures and exports of Ontario and tell where they are produced. [13.]
4. Give the boundaries of British Columbia; describe its physical features; name and give the location of its capital. [13.]
5. What is the Gulf Stream? Trace its course. How is it caused? What benefit results from it? [13.]
6. Draw a map showing the relative position of Mexico, Central America, Cuba, Hayti, and the Gulf of Mexico, and Caribbean Sea with the coast lines that form their northern and southern boundaries? [13.]
7. Select any two of the following rivers and tell where each rises, the mountains that determine its course, the directions in which it flows, the countries through which it passes, the cities on or near it, and where it empties:—Amazon, Mississippi, Nile, Danube. [13.]
8. Through what waters would you pass in sailing along the coast line of Asia from the Gulf of Aden to the Gulf of Tonquin? [13.]
9. Name the largest city in each of the following countries, tell what it is noted for and describe its situation:—Canada, United States, Scotland, Egypt, Italy, British India. [13.]

ARITHMETIC.

Note.—Only 7 questions are to be attempted. A maximum of 5 marks may be allowed for neatness.

1. Ten cents will buy 3 oranges, 4 lemons or 5 apples; how many apples are worth as much as 5 doz. oranges and 7 doz. lemons? *Ans.* 205. [15.]
2. A man can run 100 yds. in 10 sec. How many miles will a steamboat go in

5½ days at the same rate? *Ans.* 2,700 miles. [15.]

3. Find the interest on \$150 from the 16th of July to the 9th of December, at 5 per cent. per annum. *Ans.* \$3.00. [15.]
4. A person borrows moneys for 6 years at 3½ per cent. and repays at the end of the time, as principal and interest, \$847; how much did he borrow? *Ans.* \$700 00. [15.]
5. A map is drawn to the scale of half an inch to a mile, how many acres are represented by a square inch on the map? *Ans.* 2,560 acres. [15.]
6. One workman charges \$3 for a day's work of 8 hrs., and another \$3.50 for a day's work of 9 hrs. Which had I better employ and how much shall I have to pay him for work that he can do in a fortnight working 6 hrs. a day? *Ans.* 1st man, \$27.00. [15.]
7. Water in freezing, expands 10 per cent. If a cubic foot of water weighs 1000 oz., find the weight of a cubic foot of ice. *Ans.* 900 oz. [15.]
8. A merchant bought 1,000 yds. of carpet at 60 cents a yd. and sold two-fifths of it at a profit of 30 per cent.; one-half at a profit of 20 per cent., and the rest at a loss of 20 per cent. How much did he receive for the carpet? *Ans.* \$720.00. [15.]
9. A piece of land is surrounded by a stone wall 8 ft. high, and 2 ft. thick; the land inside the wall is 100 ft. long and 50 ft. wide; how many cubic ft. of stone does the wall contain? *Ans.* 4,928 cubic ft. [15.]
10. A house and lot are together worth \$2,100; one-fourth of the value of the house is equal to one-third of the value of the lot; find the value of each? [15.]
11. A cubical cistern is 5 feet deep, how many gallons of water will it hold if 277.274 cubic inches make a gallon? *Ans.* 779.01 gallons. [15.]

ENGLISH GRAMMAR.

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Note.—Only four of the first seven questions are to be attempted: all candidates will take questions 8 and 9. A maximum of 5 marks may be allowed for neatness.

1. Classify, as far as possible, the words in the following sentence, as (1) names, (2)