POOR DOCUMENT

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In Which We Publish the Entrance, Monthly and Final Examination Papers Used in the Normal School.

This Column is Open For Communications, and Will Contain Articles of Special Interest to Every Teacher.—Teachers Wishing for Information on Any School Question Can Obtain the Same by Enquiring Through This Column.

TEACHERS—I prepare teachers for advance of class at their own homes. For particulars address, W. M. McDonald, P O. Box 129, Moncton, N. B.—3t.

The following papers were given at the Normal School entrance examination held at Fredericton :

General and British History.

Class I. Time, 1½ hrs.

[N. B.—Answer only four of the first seven questions.]

1. (a) Divide the world's history into three periods, and give their closing dates.

(b) Give the commonly recognized divisions and sub-divisions of the Caucasian race; and indicate by letters (A and M) which of the peoples named as sub-divisions belong to ancient history, which to modern history, and which to both.

2. Assign the following persons and places to their proper localities and periods, and connect with each some notable fact (this may be done in tabular form :—Sennacherib, Sesostris, Carthage, Nabonassar, Cambyses II, Gantama, Rameses II, Issus, Xerxes, Ur, Cyaxares, Nineveh, Nebuchadnezzar, Memphis.

3. Into what periods is the history of the Hebrew people naturally divided?

Give some account of the Kingdoms of Judah and Israel, and of three captures of Jerusalem by foreign powers.

4. Give the three periods of the authentic history of the Greeks and write a brief summary of one period.

5. Write notes on the following :—The Roman Empire—its extent—how there came to be imperial rule in place of a republic—important dates of the period—character of the government—names and acts of four prominent emperors.

6. Give an account of the maritime discoveries in the 15th century.—the invention of printing—and the revival of learning.

7. Write biographical notes on two of the following celebrites : Frederick the Great, Peter the Creat, Charles the Twelfth, the Duke of Wellington, Napoleon III.

8 Narrate in brief the history of the relations between France and England during the Plantagenet reigns, mentioning important persons and events in that connection, with results.

8. Select two of the following topics and write a paragraph about each :—The Norman Conquest of England, the origin and growth of the parliaments, the reign of Elizabeth, the Commonwealth.

10. From the history of the British Empire since the reign of Victoria, select and name three great wars, three political events, three great discoveries or inventions, three great generals, three great statesmen, three distinguished poets, three other eminent authors.

Geography.

Class I. Time, 1 hr 20 m.

(N. B.)—The map in question 7 will be valued at twenty-five.

1. What causes ocean current? Describe the principal currents. Where and what is the Sargasso Sea?

2. What are the principal effects of the inclination of the earth's axis to the plane of its orbit.?

3. On what causes does the rainfall of a country depend? Name rainless countries and account for the absence of rain.

4. Trace the route of a traveller from London to Melbourne via the C. P. R.

6. Show how England has provided for the coaling and refitting of her fleet all over the globe.

6. Describe fully any one of the following rivers : viz, Amoor, Ganges, Amazon, Nile, Mississippi. And any one of the following cities, viz : Cairo, Calcutta, Rio Janiero, Chicago, Venice.

7. Draw an outline map of Europe, showing mountain ranges, chief rivers, capitals and one important city in each county,

Natural History.

Class I. Time, 1 hr. 30 min.

(Six questions make a full paper.)

1. Name some herbaceous plants which bloom in this province, very early in the spring. Point out the special means in the case of three of the plants you mention, which nature has provided to enable them to put forth leaves and flowers so much sooner than most other herbs.

2. What parts of the following plants are eaten by man—the potato, strawberry, carrot, cabbage, wheat, rhubarb? Of what use would these parts be to the plants respectively if they were not eaten?

3. By what properties would you distinguish quartz from feldspar feldspar from limestone, limestone from gypsum?

4. Of what mineral is earthenware mostly made? What properties fit it for that use? What metal does it contain? Describe the metal.

5. How do soils which soon become dry after a rain usually differ in their composition and origin from those which remain wet for a long time?

6. In what forms do plants usually store up food for future use? Give examples.

7. Describe a native plant belonging to the rose family, or to the pine family. Include in your description both the organs of growth and of reproduction.

8. Refer the plant you described to its proper series, class and sub-class, giving reasons for your classification.

9. Describe the various forms assumed by any useful or harmful insect whose transformations you have observed. Tell what you know of its habits in its several stages.

Geometry.

BOOK I.

Classes 1 and 2. Time 1 hr 30 m.

Note.—Customary abbreviations may be used. Give references or authorities wherever you can.

Candidates for Class I will substitute for 1 or 2 the demonstration of Prop 26 (two angles and a side opposite.)

1. Demonstrate Prop 13.—If one straight line meet another so as to form two adjacent angles, these must either be both right angles or be together equal to two right angles.

2. Prove that in any triangle not equilateral, the angle subtended by a longer side is greater than that subtended by a shorter side.

3. Demonstrate Prop 42.—To decide a parallelogram that shall be equal to a given angle.

4. State or enunciate Props 4, B, C, 8, 26, E, 37 and 38, in which two triagles are proved equal under different conditions.

5. Explain fully in words each of the following terms : (a) Alternate angles, (b) the altitude of a parallelogram, (c) converse propositions, (d) the complements of the parallelogram which are about the diagonal of a parallelogram.

English Grammar and Composition.

Class I. Time 1 hr, 30 min.

1. Meet is it changes should control
Our being, lest we rust in ease
We all are changed by slow degrees,
All but the basis of the soul.

(a) Express the thought of the above stanza in a paragraph of not less than ten lines.

(b) Give the general and detailed analysis.

(c) Describe the Rhythm and the Rhyme of the stanza and scan any one line.

(d) Change the metaphor in the word "rust" into a simile.

2. Write a descriptive paragraph of not less than twenty lines on one of the following topics viz : A beautiful scene. A character in history or fiction. A work of art.

Discuss the following grammatical topics, viz :

Gender, and the ways of distinguishing it.

Person.

Mood, with definitions and remarks on each.

Inflexions, their use and kinds.

4. Give the construction and rule of Syntax applicable to the italicized words in the following viz : I have fought a good fight. He was ordered to leave. The canal is fifty miles long. The sun rose clear. He was called the father of his country.

5. In what ways is the substantive clause usually introduced. The attributive clause? Give any exception to the latter rule.

Algebra.

Classes I and II Time 1 hr 30 min.

Note.—Exhibit the work in full. Questions 5, 6, 7 are worth more than the first four. Nos 3, 5, and 5 need not be worked by candidates for Class 1.

1 What is meant by : A simple expression? Like terms? A power of a number? The exponent? The cube root of a number?

2 Simplify :

$$1-\{(1-4x)\}+\{2x-(3-5x)\}-\{2-(4+5x)\}$$

3 Divide $1+6x^5+5x^6$ by $1+2x+x^2$.

4. Find the product of x—a, x—b and x—c, bracketing the coefficients of x wherever practicable.

5 Solve $\frac{1-2x}{3}-\frac{4-5x}{6}+\frac{13}{42}=0$

6 Solve $1\cdot2(3x-1)-2\cdot3(x-2)=1\cdot4(x-8)-1\cdot6(x-5)\div5\ 1\cdot3$.

7 Divide $64 among three persons, so that A may have three times as much as B, and C one third as much as A and B together. Find each share.

Candidates for First Class will work three of the following :

8 $\frac{a-x}{b}-b\frac{b+x}{a}=x$

9 $\sqrt{(4x)}+\sqrt{(4x-7)}=7$

10 How much tea at 35 cts. per lb. must be mixed with 30 lbs. at 55 cts., so that the mixture may be sold at 50 cts.

11 (a) What is the real difference between the algebraical and the arithmetical method of denoting numbers as :a, c, x, 7, 4, 91

(b) Distinguish between signs for operations and signs for relations, setting down all the signs you know of each sort, with the significance of each.

Arithmetic.

Class I. Time, 2 hrs.

Three of the first four questions and three of the others make a full paper. The explanation, when asked for, will be considered of as much or greater value than the operation. The unitary method will be held to include both explanation and operation.

1 A merchant buys flour for cash at $5, and sells it on credit as $6 per barrel. When cash is paid he allows a discount of 5 per cent. How much per cent does he gain on cash sales?

2 For what sum must a note be drawn on July 15, at 3 months, so that if discounted immediately at a bank, it will produce $250.85, the rate of discount being 7 per cent. per annum? Explain the operation or work by the unitary method.

3. What sum must I send my agent that he may be able to buy for me (after deducting his commission at 2 per cent. on the amount to be invested) exactly 60 bbls. of flour at $4.26 per bbl.? Explain the operation.

4 Find the area in square metres of a rectangular field 1-12 of a mile long and 200 yards wide.

5 A room is 25 feet long and 12½ feet high, and the area of the floor is 3-8 of the area of the four walls. Find the breadth of the room: Explain.

6 The contents of a cube are 9709 cu feet 64 cu. in. Find the length of its side.

7 A certain sum amounts to $372 in 3 years, at 8 per cent. simple interest. What would it amount to at compound interest in the same time at the same rate?

Divide the sum of $\frac{2\frac{2}{3}-\frac{5}{12}}{2\frac{2}{3}-\frac{3}{8}}$ and $\frac{11}{24}$ of $\frac{3}{22}$ by their difference. Explain (do not describe) the work of division.

Canadian and British History.

Classes II and III. Time 1 hr. 30 m.

PART I—CANADIAN.

Seven questions make a full paper. Answer any four of the first five.

1 Name the three great periods of Canadian history, and give their opening and closing dates. Mention the chief events in any one period.

2 Explain the following terms: Legislature, Executive Council, Ministry, Responsible Government, Civil List, National Policy.

3. Write a short account of two of the following: Rebellion of 1837-8, founding of Quebec; growth of the Dominion since 1867, invasion of Canada in 1875.

4 Explain the term, "United Empire Loyalists." When did the Loyalists emigrate at Canada and to New Brunswick? Describe the circumstances of their settling in this province—their troubles—the settlement of their claims.

5 Name correctly the separate provinces existing in the whole country now called Canada: (1) from 1767 to 1783; (2) from 1784 to 1790; (3) from 1791 to 1841; (4) from 1858 to 1867; (5) from 1871 to the present time.

PART II BRITISA.

[Answer any three of these four questions]

6 From the history of the British Empire during the reign of Victoria, select and name three great discoveries or inventions, three great generals, three great statesmen, three distinguished poets, three other eminent authors.

7. Select two of the following topics, and write a paragraph about each: The Norman conquest of England, the origin and growth of the parliament, the reign of Elizabeth, the Commonwealth:

8. Explain seven of the following terms: Heatarchy, Danegeld, Saxon Chronicle, Eagna Charta, Habeas Corpus, Petition of Right; Wars of the Roses, Corn Laws, Home Rule.

9 Tell what you know of four of the following persons in connection with British history: Agricola, Crammer, Wallace, Wat Tyler, the old Pretender; Lord Beaconsfield, Marlborough.

Normal School Entrance.

Class II. Time, 1 hr. 30 min.

N. B.—The map in Question 1 is valued at 30.

1 Draw from memory an outline map of Nova Scotia, inserting mountain ranges, chief rivers, coast waters, and ten important towns. Give at least one fact in connection with each town, on the map or in a foot note to it.

2 Explain the following terms, viz:—Equator, Ecliptic, Meridian, Tropics, Trade Winds, Solstice; Eastern Standard time.

3. Describe the physical geography of South America.

4. To what countries or cities are we chiefly indebted for the following articles, viz:—Coffee, Silk, Cutlery. Carpets, Bananas, Linen, Cinnamon; Flour, Tea, Sugar, Raw Cotton, Steel Rails, Kid Gloves, Wines, Peaches, Oranges.

5. Where and for what noted are the following, viz:—Demerara, Paloa, Voletta, Los Angeles, Warsaw, Port Arthur, Singapore, Ticonderoga, St. Ives, Valencia, Mecca, Bow River, Jamestown, Genoa, and Carmel.

Natural History.

II and III. Time, 1 hr. 30 min.

Candidates for Class II will answer six questions. Five questions make a full paper for Class III.

1 From what is lime obtained and how? From what is plaster of Paris obtained and how? How does each differ in composition from the substance from which it is derived?

2 Of what minerals does granite consist? By what properties do you distinguish them from each other?

3 Of what use is the leaf—the stem—the flower to the plant? Give reasons to show the correctness of your answer in each case.

4 What is slate? What are its more important uses? What properties make it suitable for those uses? What metal does it contain in considerable quantity?

5 From what sources do plants derive their food? From which source do they obtain the greater part of it? Tell how you know in each case.

Describe a plant belonging to the Rose or one belonging to the Lily Family. Include in your description both the organs of vegetation and of reproduction.

7 Refer the plant you described to its proper series, class, and subclass, with reasons.

8 Mention some of the ways in which flowers differ from each other in form and structure. Illustrate your answer by examples.

English Grammar and Composition.

Class II Time, 1 hr, 30 min

1 For who, to dumb forgetfulness a prey,
This pleasing anxious being e'er resigned,
Left the warm precincts of the cheerful day,
Nor cast one longing, lingering look behind.

(a) Give the meaning in your own words.

(b) The general and detailed analysis.

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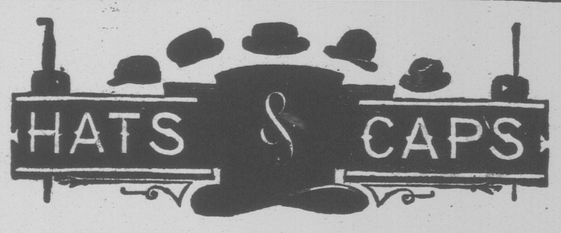

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