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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 angle. Normal School entrance examination held at Fredericton:

General and British History.

Class I. Time, 11 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 divi-

sions 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, Se- lines, sostris, 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?

of Judah and Israel, and of three captures of topics viz: A beautiful scene. A char Jerusalem by foreign powers.

4. Give the three periods of the authentic history of the Greeks and write a brief sum- viz: mary 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.

following celebrites: Frederick the Great, father of his country. 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.

since the reign of Victoria, select and name a number? three great wars, three political events, three 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 the mixture may be sold at 50 cts. 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.

eaten by man—the potato, strawberry, carrot, be held to include both explanation and obtain the greater part of it? Tell how cabbage, wheat, rhubarb? Of what use would operation. these parts be to the plants respectively if they were not eaten?

guish quartz from feldspar feldspar from lime. 5 per cent. How much per cent does he stone, limestone from gypsum?

4. Of what mineral is earthenware mostly made? What properties fit it for that use? on July 15, at 3 months, so that if dis-What metal does it contain? Describe the counted immediately at a bank, it will metal.

after a rain usually differ in their composi- ation or work by the unitary method. tion and origin from those which remain wet fer a long time?

up food for future use? Give examples.

7. Describe a native plant belonging to the of flour at \$4.26 per bol.? Explain the rose family, or to the pine family. Include in operation. your description both the organs of growth and of reproduction.

8. Refer the plant you described to its 200 yards wide. proper series, class and sub-class, giving rea-

sons for your classification. 9. Describe the various forms assumed by the area of the four walls. Find the any useful or harmful insect whose transform- breadth of the room: Explain. ations you have observed. Tell what you 6 The contents of a cube are 9709 cu!

know of its habits in its several stages. Geometry.

BOOK I. CLASSES 1 and 2. Time 1 hr 30 m. Note.—Customary abbreviations may b used. Give references or authorities where-

ever 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

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 ef 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 mi 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 Canada: (1) from 1767 to 1783; (2) from

(b) Give the general and detailed analysis. (c) Describe the Rhythm and the Rhyme | time. of the stanza and scan any one line.

(d) Change tho metaphor in the word "rust" into a simile. 2. Write a descriptive paragraph of not less

in history or fiction. A work of art. Discuss the following grammatical topics,

Gender, and the ways of distinguishing

Inflexions, their use and kinds.

lowing viz: I have fought a good fight. He Right; Wars of the Roses, Corn Laws, was ordered to leave. The canal is fifty miles Home Rule. 7. Write biographical notes on two of the long. The sun rose clear. He was called the

Give any exception to the latter rule.

Time 1 hr 30 min. CLASS II. CLASSES I and II Note.—Exhibit the work in full. Ques-

tions 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 ex-

pression? Like terms? A power of a 10. From the history of the British Empire | number? The exponent? The cube root of | nection with each town, on the map or in 2 Simplify

great discoveries or inventions, three great $1-\{(1-4x)\}+\{2x-(3-5x)\}-\{2-(3-5x)\}$ (4+5x)

3 Divide $1+6x^5+5x^6$ by $1+2x+z_2$. 4. Find the product of x-a, x-b and x-c, bracketing the coefficients of wherever practicable.

5 Solve I—2x_4—5x_+13 42=0 6 Solve 1-2(3x-1)-2-3(x-2)=1-4(x-

8)-1-6(x-5):51-3. 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:

 $9 \sim (4x) + \sim (4x-7)=7$

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

tween the algebraical and the arithmeti- position from the substance from which cal method of denoting numbers as:a, c, it is derived? x, 7, 4, 91

operations and signs for relations, set- guish them from each other? ting 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 2. What parts of the following plants are the operation. The unitary method will

1 A merchant buys flour for cash at \$5, and sells it on credit as \$6 per barrel-3. By what properties would you distin. When cash is paid he allows a discount of clude in your description both the organs gain on cash sales?

2 For what sum must a note be drawn

3. What sum must I send my agent that he may be able to buy for me (after deduct-6. In what forms do plants usually store ing his commission at 2 per cent. on the amount to be invested) exactly 60 bbls.

> 4 Find the area in square metres of a rectangular field 1-12 of a mile long and

5 A room is 25 feet long and 12½ feet high, and the area of the floor is 3-8 of

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?

difference. Explain (do not describe) the work of division.

Canadian and British History.

CLASSES II and III. Time 1 hr. 30 m. Done PARL I-CANADIAN. Seven questions make a full paper. An-

swer 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 1784 to 1790; (3) from 1791 to 1841; (4) from 1858 to 1867; (5) from 1871 to the present

PART II BRITISA.

[Answer any three of these four questions] 6 From the history of the British Em-Give some account of the Kingdoms than twenty lines on one of the following pire during the reign of Victoria, select and name three great discoveries or inyentions, 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 Mood, with definitions and remarks on growth of the parliament, the reign of Elizabeth, the Commonwealth:

8. Explain seven of the following terms: 4. Give the construction and rule of Syntax | Heatarchy, Danegeld, Saxon Chronicle, applicable to the italicized words in the fol- Eagna Charta, Habeas Corpus, Petition of

9 Tell what you know of four of the following persons in connection with British 5. In what ways is the substantive clause history: Agricola, Crammer, Wallace. usually introduced. The attributive clause? Wat Tyler, the old Pretender; Lord Beaconsfield, Marlborough.

> Normal School Entrance. Time, 1 br. 30 min. N. B.—The map in Question 1 is valued

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 con-

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 11 (a) What is the real difference be- and how? How does each differ in com-

2 Of what minerals does granite con-(b) Distinguish between signs for sist? By what properties do you distin-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 vou know in each case.

Describe a plant belonging to the Rose 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 produce \$250.85, the rate of discount being flowers differ from each other in form and 5. How do soils which soon become dry 7 per cent. per annum? Explain the oper-structure. Illustrate vour answer by examples.

English Grammar and Composition. Class II Time, 1 hr, 30 min 1 For who, to dumb forgetfulness a

This pleasing anxious being e'er resigned, Left the warm precincts of the cheer-

ful 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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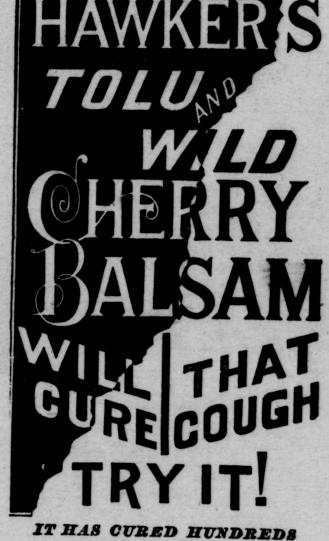
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