NORMAL SCHOOL.

EXAMINATION PAPERS, JUNE, 1886.

Below will be found the examination papers set for Second Class license at the recent closing exercises at the Normal School. Want of space prevents the publication of the remaining papers, which will appear in future issues.

**II. [1]   TEACHING AND SCHOOL MAN-   Time 2 hrs.
AGEMENT.**

1. Distinguish between *teaching* and *telling; instruction* and *education; nature* and *character*.

2. (1) What are the qualities of good reading? (2) Show how such qualities may be secured.

3. (1) What is meant by the observing powers? (2) Name several subjects specially suited for the cultivation of such powers. (3) Illustrate by means of Notes for a Lesson on *one* of the subjects you have specified in (2) how the observing powers may be cultivated.

4. (1) Name the qualities you would seek to impart in Arithmetic. (2) State in what way you would seek to secure them.

5. (1) Name the fundamental principles of classification. (2) Name other considerations which should be taken into account in classifying pupils.

6. (1) Name the subjects of instruction which you consider the most important in our ordinary Schools. (2) What proportion of School time would you set apart for teaching those subjects. (3) Show in tabular form your weekly allotment of time for each subject prescribed to be taught in ungraded Schools.

II. [2]   SCHOOL SYSTEM.   Time, 30 min.

1. What is the nature of the teacher's contract with Trustees? How may it be lawfully terminated?

2. Detail the mode of support provided by the Schools Act.

3. What is the teacher's duty with respect to (1) Time Tables? (2) Roll-call? (3) School Returns? (4) Having the School-room ready for the reception of pupils? (5) The physical welfare of the pupils? (6) The Public School property under his charge?

4. Who has power to suspend or expel a pupil from School, and under what circumstances?

5. How do you find (1) the average daily attendance of the enrolled pupils for a Term? (2) The percentage of attendance?

6. When is the annual School Meeting held? What notice should be given of the Meeting? What is the duty of Trustees with respect to the Minutes of the Meeting?

II. [3]   BOOK-KEEPING.   Time, 45 min.

1. On Jan. 13th 1886, James White sold to Robert Black 8 barrels flour at $6.75, 20 lbs. tea at 45 cts., 50 lbs. sugar at 1° cts, and 10 gallons molasses at 45 cts.

On the 17th James White bought from Robert Black 4 barrels potatoes at $1.20, 3 barrels apples at $2.75, and 22 cwt. of hay at $12 per ton, and gave his note of hand (give the amount) payable in 3 months for the balance. You are to enter the above transactions in proper form, in the Day-book and Ledger kept by James White and also in Day-book and Ledger kept by Robert Black.

2. Explain the following terms: Account Current, Assets, Cheque, Commission, Draft, Discount, Voucher, Inventory.

I. II. III. [4]   INDUSTRIAL DRAWING.   Time 1 hr.

Both the answers and the drawings are to be made on this paper. The drawings should be at least 4 inches in breadth.

1. (1) Define a compound and an abstract curve, and give an example of each. Make an application of the Ogee Curve.

2. Illustrate symmetrical arrangement about the centre of a square, using the ivy, maple, or oak leaf.

3. Give examples of the following: (a) Horizontal repetition. (b) The Greek Fret. (c) Interlacing.

4. Draw a line 4 inches in length; bisect it, and from the point of bisection erect a perpendicular.

N. B.—Instruments must not be employed in working any of the above questions, except for the 4th one If you have not instruments at hand, describe in words how the 4th question should be worked.

I. II. III. [5]   CANADIAN HISTORY.   Time 1 hr.

1. (1) Give the opening and closing dates of each of the three periods into which Canadian History is usually divided. (2) Name the *leading features* of one of these periods.

2. Write a brief account of the Destruction of Port Royal *or* of the First Capture of Quebec.

3. Briefly describe *one* of the following events: Aroostook War, Papineau's Rebellion, Ashburton Treaty, Surrender of Cornwallis, Expulsion of the Acadians.

4. By whom and under what circumstances were the following places founded. Quebec, Halifax, St. John, Fredericton, Louisburg?

5. Explain the following terms; Legislature, Parliament, Executive Council, Privy Council, Confederation, Responsible Government, British North America Act.

II. [6]   BRITISH HISTORY.   Time, 1 hr.

1. Name the Plantagenet Sovereigns and mention the leading features of the Period.

2. Briefly describe the character of Henry VII.

3. Explain the following terms or events in connection with British History:—Heptarchy, Danegeld, The Saxon Chronicle, Magna Charta, Spanish Armada, Thorough, Wars of the Roses, Indian Mutiny.

4. When and under what circumstances were the following battles fought:—Crecy, Bannockburn, Dunbar, Blenheim, Flodden?

5. Name the chief events during the reign of Queen Victoria.

6. In what way were the following names specially connected with British History:—William Wallace, Cardinal Wolsey, Oliver Cromwell, Bacon, Robert Walpole, Duke of Wellington?

II. [7]   USEFUL KNOWLEDGE.   Time, 1 hr.

1. What are the chief constituents of the atmosphere? Contrast their properties, and state how each may be separately obtained.

2. Given jars containing separately the following gases: Hydrogen, Oxygen, Carbonic Acid? What resemblances and what differences would they present?

3. Name some of the more useful varieties of *woody fibre*, with the sources from which they are obtained.

4. Name the principal Artificial Manures, and explain briefly their action as fertilizers.

5. Describe briefly the actual effect of alcohol (1 the heart, and (2) the muscles.

II. [8]   COMPOSITION.   Time, 1 hr.

1. Put the following stanza into prose form making such changes both in the construction and in the words as may be necessary to bring out clearly the idea:—

Then rose the choral hymn of praise,
And trump and timbrel answered keen :
And Zion's daughters poured their lays,
With priest's and warrior's voice between.

2. Define *substitution, expansion, contraction, enlargement,* and give an example of each.

3. (1) Name the general principles to be observed in the construction of paragraph   (2) Expand the following sentence into an Historical Paragraph:—Joan of Arc entered Orleans, drove the English from the walls defeated them in several battles, and restored to the French King the provinces he had lost.

4. Express the following proposition by a paraphrase (1) in its *simplest* form, (2) in its *expanded* form:—"*Thrice is he armed that hath his quarrel just.*"

II [9]   ENGLISH GRAMMAR.   Time, 1 hr.

1. Give the *general* and *particular* analysis of the following passage:—

"If you are not the *heiress born,*
And *I,*" said he, " the lawful heir,
We *too will wed to-morrow morn,*
And you shall *still* be Lady Clare."

2. Parse the words in *italics* in the foregoing passage.

3. Illustrate from the foregoing passage the distinction between *shall* and *will*. Give other examples of this distinction.

4. What is meant by *case, passive voice, gender, mood, a complex sentence.*

5. Form abstract nouns from the following adjectives:—*Brief, poor, dear, servile, secret, luminous.*

6. Give the past tense and past participle of the following verbs.—*Drink, steal, lay, drown, wed, speed.*

II. [10]   ENGLISH LITERATURE.   Time, 1 hr.

1. Write from memory two consecutive stanzas of the poem 'Lady Clare.'

2. Quote from Reader instances of the use of (1) *an* with the same meaning as *if*; (2) *but* as a negative relative, that is, for *who—not*; (3) *Methinks*; (4) *Wed.*

3. (1) Name the authors of the following quotations:
(2) The poems from which the quotations are made:

(a) "Casting weak words amid a host of thoughts armed to repel them."
(b) "The future, like the gathering night, was ominous and dark."
(c) "What lovely visions yield their place to cold material laws."
(d) "Is there no hand on high to shield the brave?"
(e)   "Still on it creeps,
Each little moment at another's heels."

4. Give any important facts in connection with the authors you have named.

5. Give the reference or make notes upon the *italicised* words or phrases in the following lines:—

(1) Nor ever shall the *Muse's eye.*
(2) Theme of *primeval* prophecy.
(3) He had *safe-conduct* for his band.
(4) *I trow they did not part in scorn.*
(5) *Let the dead Past bury its dead.*

6. (1) Give the derivation of *primeval, ominous, visions;* (2) Name other derivations from the same root.

II. [11]   ARITHMETIC.   Time, 1 hr. 30 m.

Exhibit the work.

1. (1) 23 is what per cent. of 92? (2) 15 is what per cent. of 80? (3) What per cent of $18 is 2 cents? (4) What per cent. of £1 is 1s ?

2. Find by Practice the price of 313 acres, 3 roods, 25 rods, at £2 15 6 per acre.

3. If 57 men can build a wall 420 yards in length, 10 feet in height, in 46 days, by working 10 hours a day, how many men would be required to build a wall 700 yards in length, 8 feet in height, in 30 days when they work 8 hours a day.

4. From the formula I = P r t, find the value of P, r and t respectively; and frame and solve a practical example to illustrate the use of each of the resulting formulas.

5. A sum of $400 was deposited on a child's fifth birthday to remain at compound interest, at 5 per cent. per annum, till his twenty-first birthday; what would the sum then amount to?

6. (1) Divide ·002316 by 142·137. (2) Show how you would explain the reason for the rule of Division of Decimals.

7. How many litres of wheat can be put into a vessel that is two metres long, 1·3 metres wide, and 1·5 metres high?

8. Explain how any number may be multiplied by 11 by annexing a cipher to it and then subtracting the number.

N. B. 7 Questions make a full paper.

II. [12]   GEOGRAPHY   Time, 1 hr 30 min

1. Define *climate,* and state the conditions which affect it at any place.

2. State how (1) to rectify the globe for the latitude of a place; (2) To find the declination of the sun
on any given day.

3. In what directions and on what waters would a vessel sail in going from St. Petersburg to Calcutta?

4. Name the British Possessions in America, with their chief Exports.

5. Describe briefly the physical features of the Dominion of Canada.

6. Where are the following places, and for what are they noted:—Odessa, Singapore, Riga, Brussels, Dundee, Rugby, Havannah.

7. Draw on the paper furnished you an outline Map of the Province of Ontario, with the chief rivers and towns indicated and named.

N. B.—The Examiner will allow 70 marks as the full value for the first six questions, and 30 marks for the seventh question.

II. [13]   PHYSICS.   Time, 1 hr.

1. What is meant by the specific gravity of a body? What bodies will float in water? Should a person fall accidentally into deep water, how shall he act in order to diminish the danger of his sinking?

2. From what substances and how could you develop electricity and show its power of attraction?

3. Describe some simple experiments which show the downward and upward pressure of the air.

4. Upon what properties of liquids does the action of the Hydraulic Press depend.

5. Explain the construction and principle of action of the Suction Pump, and the fact by such a Pump water can be raised as high as 30 feet, while mercury cannot be raised as high as 30 inches.

Read this paper over before commencing the work.

I. F. & II. M. [14]   GEOMETRY. Time, 1 hr. 30 min.

1. Define the terms *angle, circle, parallelogram, postulate, axiom, problem, theorem, corollary.*

2. Prove that any two sides of a triangle are together greater than the third side.

3. Draw a straight line through a given point, parallel to a given straight line.

4. Show that the sum of the interior angles of any rectilineal figure together with four right angles, is equal to twice as many right angles as the figure has sides.

5. Prove that the opposite sides and angles of a parallelogram are equal to one another, and that the diagonal bisects it.

6. Divide a straight line into two parts, so that the rectangle contained by the whole and one of the parts shall be equal to the square of the other part.