# ....Vancouver High School....

Vancouver
British Columbia
Canada

# Course of Study

for the year

+ 1896-7 +

...aud...

# CATALOGUE

for the year

+ 1895-6 +

Vancouver
News-Advertiser Printing and Bookbinding Establishment
Cambie Street
1896

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...and...

# CATALOGUE

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# BOARD OF SCHOOL TRUSTEES

# VANCOUVER, B.C.

WM. TEMPLETON, Esq., CHAIRMAN, '98
C. W. MURRAY, Esq., Secretary, '97
G. R. GORDON, Esq., '98
A. H. B. MACGOWAN, Esq., '97

JAMES LOGAN, Esq., '97

# 44444

# FACULTY OF INSTRUCTION

# HIGH SCHOOL DEPARTMENT

ALEXANDER ROBINSON, B.A. (DAL.), PRINCIPAL—
GREEK, FRENCH AND ANCIENT HISTORY

JAMES C. SHAW, B.A. (DAL.), A.M. (HARV.)—
LATIN AND ENGLISH LITERATURE

JOHN H. KERR, B.A. (TORONTO)—
MATHEMATICS AND COMMERCIAL BRANCHES

GEORGE E. ROBINSON, B.A. (DAL.)—
SENIOR MATHEMATICS

JOSEPH K. HENRY, B.A. (DAL.)—
SCIENCE AND ENGLISH

#### PUBLIC SCHOOL DEPARTMENT

F.	M.	COWPERTHWA	ITE, B.A. (U	J.N.B.)		- Principa	l Centrai	. School
G.	н.	TOM			~	PRINCIPAL	EAST END	School
T.	A.	McGARRIGLE, I	B.A. (U.N.B.)			PRINCIPAL	WEST END	SCHOOL
G.	W,	JAMIESON			PRINCI	PAL MOUNT	PLEASANT	SCHOOL



# VANCOUVER HIGH SCHOOL

# TIME OF SESSION.

There are two terms in the Academic year, commencing respectively on the second Monday in August and the first Monday in January after New Year's Day. The hours of teaching are from 9 a.m. to 12 m., and from 1 p.m. to 3:30 p.m., from April to October, inclusive; and from 9:30 a.m. to 12 m., and from 1 p.m. to 3 p.m., from November to March inclusive.

## ABTHESION.

The regular Entrance Examination is held in June of each year. This Examination is under the control of the Education Department of the Province. The following are the subjects of examination:—

- 1. Spelling.—To be able to spell correctly the ordinary words in the Fifth Reader and Spelling Book.
- 2. Reading.—To read correctly and intelligently any passage in the Fifth Reader.
  - 3. Writing.—To write neatly and legibly.
- 4. Arithmetic.—To have a good general knowledge of numeration, noration, the four simple and compound rules, reduction, vulgar and decimal fractions, proportion, simple interest and percentage, compound interest and discount.
- 5. Mental Arithmetic.—To be able to solve mentally any ordinary problems.
- 6. Grammar.—To know the principal grammatical forms and definitions, and to be able to analyze and parse any ordinary sentence.
- 7. Geography.—To have a good knowledge of the earth's planetary relations, of the general principles of physical geography, and of the outlines of the maps of Europe, Asia, Africa, America, Oceania, and of the British Empire, and more particularly of that of the Dominion of Canada,

- 8. English History.—To know the different periods and outlines of English History.
- 9. Canadian History.—To have a knowledge of the outlines of Canadian History.
- 10. Composition.—To be able to write a letter correctly as to form and punctuation, and to write a brief composition on any simple subject.
- 11. Anatomy, Physiology and Hygiene.—To have a general knowledge of the subject.
  - 12. Agriculture.—To have a general knowledge of the subject.

In order that a candidate may obtain admission to the High School, the aggregate of his marks must amount to at least 60 per cent. of the total marks assigned for all the subjects of examination, and at least 30 per cent. must be obtained in each subject. Candidates will not be admitted who fail to gain 50 per cent. on the granmar paper.

Candidates who have been unable to attend the regular entrance examination, may, on application to the Principal, obtain a special examination.

Teachers of the Public Schools, who have already obtained certificates by examination in the Province, may be admitted to the High School as pupils without being required to pass the usual entrance examination.

## CLASSIFICATION.

There are five classes, designated "A," "B," "C," "D" and "E," respectively. All admissions to the High School are to the "E," or lowest class, unless the candidate can show his ability to enter a higher class.

#### COURSE OF STUDY.

CLASS "E"-FIRST TERM.

1. English Language.—(a).—Reading.—Sixth Reader; the principles of orthopy and elocution, spelling, derivation of words, rendering of poetry into prose, and generally the formation of a good English style.

- (b). Composition.—The structure of sentences and paragraphs, correction of errors, familiar and business letters, themes on familiar subjects.
- (c). Grammar.—Etymology (as in Smith's English Grammar), analysis and parsing of passages from authors not specified.
- 2. Geography.—Particular geography of Africa and Europe (part). Elementary exercises on the use of the terrestrial globe.
- 3. History.—British History to the end of the Plantagenet Period.
- 4. Book-keeping.—Business forms, accounts, easy sets for practice.
- 5. Mathematics.—(a).—Written and Mental Arithmetic.—Vulgar and decimal fractions.
- (b). Algebra.—Four fundamental rules, elementary formulæ, factoring.
  - 6. Classics.—Latin.—The Noun and Adjective.

## SECOND TERM.

Revision of the prescribed work of the First Term, with the following additions:—

- 1. English Language.—Extension of the course for the First Term.
- 2. Geography.—(a).—Particular geography of Europe completed.
  - (b). Physical geography from some recognized text-book.
  - 3. History.—British History to the end of the Tudor Period.
- 4. Book-keeping—Extension of the course prescribed for the First Term.
- 5. Mathematics.—(a).—Written and Mental Arithmetic.—Simple and compound interest.
  - (b). Algebra.—Simple equations, H.C.F. and L.C.M.
  - 6. Classics.—Latin.—To the end of the Pronoun.

# CLASS "D."

- 1. English Language.—Extension of the course for Class "E."
- 2. Geography.—(a.)—Particular geography of Europe completed, Asia.

- (b). Physical geography from some recognized text-book.
- 3. History.—British History to the end of the Stuart Period.
- 4. Book-keeping.—Day-book, journal, cash-book and ledger.
- 5. Mathematics.—(a.)—Written and Mental Arithmetic.—Simple and compound interest, present worth and discount, proportion.
  - (b). Algebra.—Simple equations, H.C.F. and L.C.M., fractions.
  - 6. Classics.—Latin.—To the end of the Regular Verb.

# CLASS "C."-FIRST TERM.

- 1. English Language.—Extension of the course for Class "D."
- 2. Geography.—Physical geography completed.
- 3. History.—British History from 1688 to the present time.
- 4. Book-keeping.—Notes, drafts, bills of exchange.
- 5. Science.—Chemistry.—The gases.
- 6. Mathematics.—(a).—Written and Mental Arithmetic.—Present worth and discount, commission.
  - (b). Algebra.—To the end of fractions.
- (c). Geometry.—Euclid, Book I., first twenty propositions, with deductions.
  - (d). Mensuration.—To the end of the Rectangle.
- 7. French.—First forty exercises of Fasquelle's Introductory Text-book.
  - 8. Classics.—Latin.—To the end of the Adverb.

#### SECOND TERM.

- 1. English Language and Literature.—Extension of the course for First Term. Critical reading of an English classic.
  - 2. History.—(a).—British History completed and reviewed.
- (b).—Outlines of Ancient History, with special reference to the History of Rome.
  - 3. Book-keeping.—Sets for practice.
  - $4. \ \ Science. Chemistry. The metals.$
- 5. Mathematics.—(a).—Written and Mental Arithmetic.—Insurance, taxes, stocks.

- (b). Algebra.—Simultaneous equations, square and cube roots.
- (c). Geometry.—Euclid, Book I. completed.
- (d). Mensuration.—Plane surfaces completed.
- 6. French.—Fasquelle's Text-book completed.
- 7. Classics.—(a).—Latin.—Text-book completed and reviewed.
- (b). Greek.—The Noun and Adjective.

# CLASS "B."-FIRST TERM.

- 1. English Language and Literature.—Extension of the course for Class "C." Critical reading of an English classic.
- 2. History.—Outlines of Ancient History, with special reference to the History of Greece.
  - 3. Book-keeping.—Shipments and consignments.
  - 4. Science.—(a).—Chemistry.—The gases.
  - (b). Natural Philosophy.—Introduction to Peck's Ganot.
- 5. Mathematics.—(a).—Written and Mental Arithmetic.—Alligation, proportional parts, partnership.
- (b). Algebra—Fractions completed, simultaneous equations, square and cube roots.
- (c). Geometry.—Euclid, Book I. completed, Book II. treated diagrammatically.
  - (d). Mensuration.—Spherical and cylindrical surfaces.
- 6. French.—Grammar, with special reference to the Irregular Verbs.
- 7. Classics.—(a).—Latin—Caesar, De Bello Gallico, Book I., Chapters 1.15; composition based on text.
  - (b). Greek.—To the end of the Pronoun.

#### SECOND TERM.

- 1. English Language and Literature.—Extension of the course for First Term, critical reading of an English classic, rhetoric.
  - 2. History.—Outlines of Ancient History completed.
  - 3. Book-keeping.—Joint accounts and special methods.
  - 4. Science.—(a).—Chemistry.—Elementary course completed.
- (b), Botany.—Collection of native wild flowers by each member of the class.

- 5. Mathematics.—(a).—Written and Mental Arithmetic.— Exchange, metric system.
  - (b). Algebra.—Quadratic equations, indices and surds.
- (c). Geometry.—Euclid, Book II., according to the "Line" method, with algebraical equivalents, Book III.
  - (d). Mensuration.—Volumes of solids.
  - 6. French.—Voltaire, History of Charles XII., Book I.
- 7. Classics.—(a).—Latin.—Caesar, De Bello Gallico, Book I. completed, composition continued.
  - (b). Greek.—Introductory Text-book completed.

# CLASS "A."-FIRST TERM.

- 1. English Language and Literature.—Extension of the course for Class "B," advanced course in English grammar.
  - 2. Science.—(a).—Natural Philosophy.—Peck's Ganot.
- 3. Mathematics.—(a).—Written and Mental Arithmetic.—Mortgages, debentures and annuities.
  - (b). Algebra.—Quadratic equations, indices and surds.
  - (c). Geometry.—Euclid, Books III. and IV.
  - (d). Mensuration.—Practical applications.
  - 4. French.—Voltaire, History of Charles XII., Books I. and II.
- 5. Classics.—(a).—Latin.—Caesar, De Bello Gallico, Book I. reviewed, Book II., Bradley's Arnold's Latin Prose Composition, Exercises 1-15.
- (b). Greek.—Xenophon, Anabasis, Book II., Abbott's Greek Prose Composition, Exercises 1-15.

#### SECOND TERM.

- 1. English Language and Literature.—Advanced course in English grammar continued, critical reading of an English classic.
- 2. Science.—(a).—Natural Philosophy.—Peck's Ganot completed.
  - (b). Botany.
- 3. Mathematics.—(a).—Written and Mental Arithmetic.—Miscellaneous problems.
- (b). Algebra.—Ratio and progressions, the proportions, permutations and combinations, binomial theorem.

- (c). Geometry.—Euclid, Books V. and VI.
- (d). Trigonometry.—To the end of the Solution of Triangles.
- 4. French.—Corneille, Le Cid; La Fontaine's Fables, Books I. and II.
- 5. Classics.—(a).—Latin—Vergil, Aeneid, Books I. and II., Latin prose composition completed.
- (b). Greek.—Xenophon, Anabasis, Book I.; Homer, Iliad, Book I.; Greek prose composition completed.

# RESIDENCE.

The Vancouver High School is not a boarding school. Students from outside districts may, on application to the Secretary of the School Board or to the Principal, obtain a list of suitable boarding houses. Such students are required to report their place of residence to the Principal.

# FFES.

No fee is exacted from any student either from the city or elsewhere.

# LIST OF STUDENTS.

In attendance at the Vancouver High School for the Academic year 1895-96.

# CLASS "E."

1	‡Anderson, Roy L	Vancouver	City
2		tr	11
3	Brown, Thomas J	n	11
4	Burritt, Anna	11	11
5	Cook, Agues	11	11
6	‡Cook, Lizzie		rt
7	Downing, Ella	Ħ	11
8	Daniels, Frena	$\dots$ North	Arm
9	‡Elliott, John	. Vancouver	City
10	‡Gordon, Sarah E	n .	11
11	‡Gordon, Edith M	II .	11
12	Gondron, Paul	11	11
13	Helgeson, Christian A		ooke
14	Hobbs, Ida	Do	nald
15	#Henderson, Olive	Chilli	wack
16	‡Inglis, Jessie	Serpe	ntine
17	Janes, Albert	. Vancouver	City
18	‡Kane, Daniel D	I	Caslo
19	‡Lawson, Hope A	. Vancouver	City
20	‡Le Cappellain, Thomas A	n	11
21	‡McConaghy, James	41	11
	‡McGirr, Mand		11
	#McDonald, Edwin A		tt
24	‡McKay, Stanley		††
25	* * ***		
	McKinnon, Duncan		11
26	McLeod, Rachel	s	umas
26		s	umas
26	McLeod, Rachel	S .Vancouver	umas
26 27	McLeod, Rachel.  ‡McLachlan, Kate McMillan, James.  ‡McNair, Clara.	S Vancouver	umas City
26 27 28	McLeod, Rachel.  ‡McLachlan, Kate.  McMillan, James.  ‡McNair, Clara.  Matthews, Hilda.	S .Vancouver "	umas City
26 27 28 29 30 31	McLeod, Rachel.  ‡McLachlan, Kate.  McMillan, James.  ‡McNair, Clara.  Matthews, Hilda.  ‡Marstrand Anna,	S Vancouver	umas City "
26 27 28 29 30 31 32	McLeod, Rachel.  ‡McLachlan, Kate.  McMillan, James.  ‡McNair, Clara.  Matthews, Hilda.  ‡Marstrand Anna,  ‡Mills, Maud.	S. Vancouver	umas City "
26 27 28 29 30 31 32	McLeod, Rachel.  ‡McLachlan, Kate.  McMillan, James.  ‡McNair, Clara.  Matthews, Hilda.  ‡Marstrand Anna,	S .Vancouver	umas City "

35 ‡Paul, MargaretVan	ıcouver	City
36 Rose, Samuel A.	ti.	"
37 Rose, Ernest	11	**
38 ‡Reveley, Annie	11	11
39 Robinson, Fannie	11	11
40 Sanders, J. Fred	11	**
41 ‡Southcott, A. Mabel	11	H s
42 ‡Valentine, Ruth	Revel	stoke
43 ‡Wintenute, WilsonVa	ncouver	City
44 ‡Whitman, Gertrude	11	11
45 ‡Wilson, William C		11
46 Williams William		
Promoted to Class "C" at Mid-summer Examination.		J
CLASS "D."		~
47 Baxter, Matilda	ncouve	r City
48 Black, Ellen Blithe	tt	**
49 †Blair, William	Ħ	11
50 Bodwell, Lue A Sout	th Vanc	ouver
51 Bovyer, Mark	11	11
52 Campion, Rosamond	ncouve	r City
53 Chase, William	11	Ħ
54 †Clarkson, Bertie	11	T f
55 †Clements, Jessie	11	Ħ
56 Coots, Jennie	11	11
57 †Earle, HarrySour	th Vanc	ouver
58 ‡Ford, Harry SmytheVa	ncouve	r City
59 Fraser, Clifford	11	11
60 †Hamilton, Myrtle	11	11
61 Howe, Gertrude EstelleSou	th Vanc	ouver
62 Mace, William ArthurVa	ncouve	r City
63 MacNider, Maud	11	11
64 Marsden, Lily Sarah	11	1:
65 †Marshall, Ida Laura	11	11
66 †Mason, Charles Herbert	tt	f1
67 Matheson, George	11	15
68 Moffat, Bessie Belle	11	**
69 Moscrop, Arthur	e	tt
70 Ridley, Oscar E	11	11
71 Ross, Margaret	11	11
72 †Slagg, John Chapman	,,	**
73 Standfield, Gertrude Louise	11	11
74 Tierney, Lena Beatrice	11	ft
75 Tilley, Jennie	11	H
76 †Woodward May Catherine	11	n
†Promoted to Class "B" at Mid-summer Examination,		

# CLASS "C."

77   Arthur, Janie	77 †Armstrong, MabelVa	neonve	r City
79         Berteaux, Ralph Charles         """"""""""""""""""""""""""""""""""""	77 Arthur Ionia		
S0 +Breeze, William Graham			
81 †Cameron, Sadie Bell. " " "			
82 Campbell, Jessie " " " 83 †Charleson, Gertrude " " " 84 McAlpine, Olga Elizabeth " " " 85 McLeau, Margaret " " " 86 McLeau, Margaret " " " 87 †Magee, Etta Florence Maud " " " 88 Morris, William Alexander " " " 89 Moss, Wilhelmina " " " 90 †Oppenheimer, Flora Jeauette " " " 91 Stitt, Hazel Eleanor " " " 92 †Tracy, Sara Louie " " " 92 †Tracy, Sara Louie " " " 93 Turner, Bertha " " " 94 †Wilson, Jean Ingram " " " " 95 Wilson, Hugh Bain " " " 96 Worsnop, Charles Benson " " " " " 97 *Allan, Alexander Gray " Vancouver City 98 Barnes, Lena Naomi " " " " " 99 Barwick, Stanley " " " " " 99 Barwick, Stanley " " " " " " " " " " " " " " " " " " "			11
83 †Charleson, Gertrude		ш	11
84 McAlpine, Olga Elizabeth.         " " "           85 McLeau, Margaret.         " " "           86 McLeod, Floretta         " " "           87 †Magee, Etta Florence Maud         " " "           88 Morris, William Alexander         " " "           89 Moss, Wilhelmina         " " "           90 †Oppenheimer, Flora Jeanette         " " "           91 Stitt, Hazel Eleanor         " " "           92 †Tracy, Sara Louie         " " "           93 Turner, Bertha         " " "           93 Turner, Bertha         " " "           94 †Wilson, Jean Ingram         " " "           95 Wilson, Hugh Bain         " " "           96 Worsnop, Charles Benson         " " "           †Promoted to Class "B" at Mid-summer Examination.           CLASS "B."           97 *Allan, Alexander Gray         Vancouver City           98 Barnes, Lena Naomi         " "           99 Barwick, Stanley         " "           100 Blair, Mabel Abbie         " "           101 Broderick, Tindall         " "           102 Burnet, Minnie         " "           103 Chapman, Ernest George         " "           104 Clark, Maggie Bell         " "           105 Eldridge, Julia May         " " <tr< td=""><td></td><td>ft.</td><td>11</td></tr<>		ft.	11
85 McLean, Margaret. " " " 86 McLeod, Floretta " " " 87 †Magee, Etta Florence Mand " " " 88 Morris, William Alexander " " " 89 Moss, Wilhelmina " " " 89 Moss, Wilhelmina " " " " " 90 †Oppenheimer, Flora Jeanette " " " " 91 Stitt, Hazel Eleanor " " " " 92 †Tracy, Sara Louie " " " " 92 †Tracy, Sara Louie " " " " 93 Turner, Bertha " " " " " 94 †Wilson, Jean Ingram " " " " " 95 Wilson, Hugh Bain " " " " " " 97 *Wilson, Hugh Bain " " " " " " " " " " " " " " " " " " "		11	11
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87 †Magee, Etta Florence Maud		11	**
88 Morris, William Alexander """ 89 Moss, Wilhelmina """ 90 †Oppenheimer, Flora Jeanette """" 91 Stitt, Hazel Eleanor """" 92 †Tracy, Sara Louie """" 93 Turner, Bertha """" 94 †Wilson, Jean Ingram """" 95 Wilson, Hugh Bain """" 96 Worsnop, Charles Benson """"  †Promoted to Class "B" at Mid-summer Examination.  CLASS "B."  97 *Allan, Alexander Gray """ 98 Barnes, Lena Naomi """" 99 Barwick, Stanley """" 100 Blair, Mabel Abbie """" 101 Broderick, Tindall """" 102 Burnet, Minnie """ 103 Chapman, Ernest George """" 104 Clark, Maggie Bell """ 105 Eldridge, Julia May """ 106 *Foster, John MacGregor """ 107 Heaps, Katie Eden """ 108 *Johnstone, Jean Pattison """ 110 McNair, Laura """ 111 *Ogilvie, Ethel May """ 111 *Ogilvie, Ethel May """ 111 *Oppenheiner, Rena """ 113 Reid, Jamima """ 114 Scarry, Albert """" 11 *Scarry, Albert """" 11 *Scarry, Albert """ 11 **Correct Texture "" 11 **Correct Texture """ 11 **Correct Texture "" 11 **Correct Texture "" 11 **Correct Texture "" 11 **Corr		**	11
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92 †Tracy, Sara Louie			н
94 †Wilson, Jean Ingram       " " "         95 Wilson, Hugh Bain       " " "         96 Worsnop, Charles Benson       " " "         †Promoted to Class "B" at Mid-summer Examination.         CLASS "B."         CLASS "B."         Vancouver City         98 Barnes, Lena Naomi       " " "         99 Barwick, Stanley       " " "         100 Blair, Mabel Abbie       " " "         101 Broderick, Tindall       " " "         102 Burnet, Minnie       " " "         103 Chapman, Ernest George       " " "         104 Clark, Maggie Bell       " " "         105 Eldridge, Julia May       " " "         106 *Foster, John MacGregor       " " "         107 Heaps, Katie Eden       " " "         108 *Johnstone, Jean Pattison       " " "         109 MacGowan, Roy       " " "         111 *Ogilvie, Ethel May       " " "         112 *Oppenheimer, Rena       " " "         113 Reid, Jamima       " " "         114 Scurry, Albert       " " "		f1	11
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96 Worsnop, Charles Benson " " " " " " " " " " " " " " " " " " "	94 †Wilson, Jean Ingram	11	at S
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100       Blair, Mabel Abbie       """"""""""""""""""""""""""""""""""""	97 *Allan, Alexander GrayV		
102       Burnet, Minnie.       """"""""""""""""""""""""""""""""""""	97 *Allan, Alexander Gray	**	11
103 Chapman, Ernest George       " "         104 Clark, Maggie Bell       " "         105 Eldridge, Julia May       " "         106 *Foster, John MacGregor       " "         107 Heaps, Katie Eden       " "         108 *Johnstone, Jean Pattison       " "         109 MacGowan, Roy       " "         110 McNair, Laura       " "         111 *Ogilvie, Ethel May       " "         112 *Oppenheimer, Rena       " "         113 Reid, Jamima       " "         114 Scurry, Albert       " "	97 *Allan, Alexander Gray       .V         98 Barnes, Lena Naomi          99 Barwick, Stanley	11	íı 11
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109 MacGowan, Roy       """"         110 McNair, Laura       """"         111 *Ogilvie, Ethel May       """"         112 *Oppenheimer, Rena       """"         113 Reid, Jamima       """"         114 Scurry, Albert       """"	97 *Allan, Alexander Gray	H H	H
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115 Springer, Frank	97 *Allan, Alexander Gray. V 98 Barnes, Lena Naomi 99 Barwick, Stanley. 100 Blair, Mabel Abbie 101 Broderick, Tindall. 102 Burnet, Minnie. 103 Chapman, Ernest George. 104 Clark, Maggie Bell 105 Eldridge, Julia May. 106 *Foster, John MacGregor 107 Heaps, Katie Eden 108 *Johnstone, Jean Pattison. 109 MacGowan, Roy. 110 McNair, Laura. 111 *Ogilvie, Ethel May. 112 *Oppenheimer, Rena.		
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116 *Whitworth, Gladys	97 *Allan, Alexander Gray. V 98 Barnes, Lena Naomi 99 Barwick, Stanley. 100 Blair, Mabel Abbie 101 Broderick, Tindall. 102 Burnet, Minnie. 103 Chapman, Ernest George 104 Clark, Maggie Bell 105 Eldridge, Julia May. 106 *Foster, John MacGregor 107 Heaps, Katie Eden 108 *Johnstone, Jean Pattisou. 109 MacGowan, Roy. 110 McNair, Laura. 111 *Ogilvie, Ethel May. 112 *Oppenheinter, Rena. 113 Reid, Jamima. 114 Scurry, Albert. 115 Springer, Frank.		

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	Tromoped to Caras 22 to 2222 Minimor Extenditions		
	CLASS "A."		
120	Agnew, SarahVa	anconve	er City
121	Brown, Elizabeth		;1
122	Brown, William	11	11
123	De Pencier, Theodore	n.	11
125	Garratt, Wilher	Lulu	Island
124	George, ElizabethV		
126	Gordon, Bruce	11	11
127	Graham, Mary	н	11
128	Graydon, Sheriff	H	11
129	MacHaffie, Lorne	11	tt
130	Marsland, Allan.	Ħ	11
131	McAlpine, Sarah	11	H
132	McQueen, Annie	44	11
133	Moss, Laura	11	f1

Robinson, Esther.....

# Promotion Examinations.

# LATIN.

Examiner......James C. Shaw, A.M.

CLASS "A."

I.

VERSE AND COMPOSITION PAPER.

Time: Three Hours.

A.

(a) Translate:

Id metuens veterisque memor Saturnia belli, prima quod ad Troiam pro caris gesserat Argis; —necdum etiam causae irarum saevique dolores exciderant animo; manet alta mente repostum iudicium Paridis spretaeque iniuria formae, et genus invisum et rapti Ganymedis honores:—his accensa super iactatos aequore toto Troas, reliquias Danaum atque immitis Achilli, arcebat longe Latio, multosque per annos errabant acti fatis maria omnia circum: tantae molis erat Romanam condere gentem.

- 1. Memor . . . . belli. What other adjectives are followed by a genitive?
- 2. Saturnia . . . . iudicium Paridis . . . . rapti Ganymedis honores. Write explanatory notes.
- 3. Troas . . . . Danaum . . . . Achilli. Comment upon case-forms. By what other names does Vergil call the Greeks? Classify the genitives Achilli, and molis in the last line of the extract.
- 4. Give the principal parts of manet, repostum, spretae, rapti, accensa, arcebat, and condere.

- 5. Scan the second and third lines, marking quantities and Casuræ.
  - (b) Translate:

Talia voce refert, curisque ingentibus aeger spem voltu simulat, premit altum corde dolorem. Illi se praedae accingunt dapibusque futuris: tergora deripiunt costis et viscera nudant, pars in frusta secant veribusque trementia figunt, litore aena locant alii flammasque ministrant. Tum victu revocant vires, fusique per herbam implentur veteris Bacchi pinguisque ferinae. Postquam exempta fames epulis mensaeque remotae, amissos longo socios sermone requirunt spemque metunique inter dubii, seu vivere credant sive extrema pati nec iam exaudire vocatos.

- 1. Implentur . . . . . Bacchi. What classes of verbs govern the genitive ?
  - Bacchi. Name the figure, and quote a similar one from this book.
- 2. Mensae remotae. Discuss this statement, and describe the customs referred to here and in the last word of the extract.
- 3. What word is poetically omitted in the last two lines of the extract?
- 4. Give the principal parts of secant, fusi, implentur, and exempta.
- 5. Decline dapibus, veribus, vires, and spem, noting peculiarities.
- 6. "Animum pictura inani pascit." Enumerate the scenes depicted.
- 7. Describe the supernatural elements in Aeneid I.
- 8. Write Vergil's name in full, a brief sketch of his life, and a list of his works.
- В.
- 1. Show that impossible Latin must result from (a) disregard of the different senses of the same English word, (b) literal translation of metaphorical expressions, (c) undue dependence upon derivation as a guide.

- Illustrate by a comparison of English and Latin sentences the tendency in the latter language towards (a) subordination of clauses and (b) concreteness of expression.
- 3. State the various ways in which the several (a) pronominal and (b) conjunctival uses of that are expressed in Latin.
- 4. Translate into Latin:
  - (a) His best friends are ashamed of this man, his fame is envied by his enemies, and he is universally hated himself.
  - (b) These scouts were the first to reach the top of the mountain, and the last to descend.
  - (c) It is said that your brother's views on this question are the same now as they have always been. Is this true or not?
  - (d) After marching for the space of three days through the country of the Nervii, Casar found out from prisoners that the river Sambre was not more than ten miles distant from his camp, and that all the Nervii had encamped across this river.
  - (e) Such being the case, Catiline, do you still hesitate to depart from Rome and go into exile at Marseilles?

TT.

#### PROSE PAPER.

Time: Three Hours.

A.

# (a) Translate:

Quamobrem placuit ei, ut ad Ariovistum legatos mitteret, qui ab eo postularent, uti aliquem locum medium utriusque colloquio deligeret: velle sese de re publica et summis utriusque rebus cum eo agere. Ei legationi Ariovistus respondit: Si quid ipsi a Caesare opus esset, sese ad eum venturum fuisse; si quid ille se velit, illum ad se venire oportere. Praeterea se neque sine exercitu in eas partes Galliae venire audere, quas Caesar possideret, neque exercitum sine magno commeatu atque molimento in unum locum contrahere posse. Sibi autem mirum videri, quid in sua Gallia, quam bello vicisset, aut Caesari aut omnino populo Romano negotii esset.

- Qui ab eo postularent. Express this by all other prose constructions.
- Locum medium utriusque. Explain the genitive and also negotii in the last clause of the extract.
- 3. Si quid ille se velit. Comment upon the case of se.
  - (b) Translate:

Cum esset Caesar in citeriore Gallia in hibernis, ita uti supra demonstravimus, crebri ad eum rumores afferebantur, litterisque item Labieni certior fiebat omnes Belgas, quam tertiam esse Galliae partem dixeramus, contra populum Romanum coniurare obsidesque inter se Coniurandi has esse causas: primum quod vererentur, ne omni pacata Gallia ad eos exercitus noster adduceretur; deinde, quod ab nonnullis Gallis sollicitarentur, partim qui, ut Germanos diutius in Gallia versari noluerant, ita populi Romani exercitum hiemare atque inveterascere in Gallia moleste ferebant. partim qui mobilitate et levitate animi novis imperiis studebant, ab nonnullis etiam, quod in Gallia a potentioribus atque iis, qui ad conducendos homines facultates habebant, vulgo regna occupabantur, qui minus facile eam rem imperio nostro consegui poterant.

- 1. Explain the relative in the first sentence.
- 2. What are the usual modal changes for Oratio Obliqua? Note and account for any departures therefrom in the extract.
- 3. Name, and describe the duties of, the officers in Caesar's army.
- Sketch his method of conducting a regular siege, naming and describing the various contrivances employed.
- 5. What battles are described in the Gallic War (Books I. and II.), and with whom?

В.

# (a) Translate:

Potestne tibi haec lux, Catilina, aut huius caeli spiritus esse iucundus, cum scias esse horum neminem qui nesciat, te pridie Kalendas Ianuarias Lepido et Tullo consulibus stetisse in comitio cum telo? manum consulum et principum civitatis interficiendorum causa paravisse? sceleri ac furori tuo non mentem aliquam aut timorem tuum, sed fortunum populi Romani obstitisse? Ac iam illa

omitto—neque enim sunt aut obscura aut non multa commissa postea—: quotiens tu me designatum, quotiens consulem interficere voluisti! quot ego tuas petitiones ita coniectas, ut vitari posse non viderentur, parva quadam declinatione et, ut aiunt, corpore effugi! Nihil adsequeris, neque tamen conari ac velle desistis.

- Pridie Kalendas Ianuarias Leipdo et Tullo consulibus. Explain in detail the Roman method of indicating the year, month, and day.
- 2. Petitiones. Explain the point of this word.
  - (b) Translate:

Nulla est enim natio, quam pertimescamus, nullus rex, qui bellum populo Romano facere possit; omnia sunt externa unius virtute terra marique pacata: domesticum bellum manet, intus insidiae sunt, intus inclusum periculum est, intus est hostis: cum luxuria nobis, cum amentia, cum scelere certandum est. Huic ego me bello ducem profiteor, Quirites; suscipio inimicitias hominum perditorum: quae sanari poterunt, quacumque ratione sanabo; quae resecanda erunt, non patiar ad perniciem civitatis manere. Proinde aut exeant aut quiescant aut, si et in urbe et in eadem mente permanent, ea quae merentur exspectent.

At etiam sunt qui dicant, Quirites, a me in exilium eiectum esse Catilinam. Quod ego si verbo adsequi possem, istos ipsos eicerem, qui haec loquuntur. Homo emin videlicet timidus aut etiam permodestus vocem consulis ferre non potuit; simul atque ire in exilium iussus est, paruit atque ivit.

- 1. Account for the subjunctives pertimescamus, exeant, dicant, possem, and eicerem.
- Omni sunt externa unius virtute terra marique pacata.
   Who is meant by unius, and what by terra marque?
- 3. "Tecum patria tacita loquitur." What is the figure called?
  "Se ipse iam dignum custodia iudicarit." Explain
  custodia. "Vadimonia desercre." What was this?
  "Meo beneficio tabulae novae proferentur, verum auctionariae." Explain.
- 4. Give Cicero's classification of the Catilinarian conspirators.
- 5. Describe the revolutionary changes proposed by Catiline.

# GREEK.

Examiner...... Alexander Robinson, B.A.

XENOPHON: Anabasis, Book I.

Time: Three Hours.

I.

## A. Translate:

Σχεδὸν δ' ὅτε ταῖτα ῆν καὶ ἤλιος ἐδύετο. ἐνταῦθα δ' ἔστησαν οἱ Έλληνες καὶ θέμενοι τὰ ὅπλα ἀνεπαύοντο κ αὶ ἄμα μὲν ἐθαύμαζον ὅτι οὐδαμοῦ Κῦρος φαίνοιτο οὐδ' ἄλλος ἀπ' αὐτοῦ οὐδεὶς παρείη· οὐ γὰρ ἤδεσαν αὐτὸν τεθνηκότα, ἀλλ' εἴκαζον ἢ διώκοντα οἴχεσθαι ἢ καταληψόμενόν τι προεληλακέναι· καὶ αὐτοὶ ἐβουλεύοντο εἰ αὐτοῦ μείναντες τὰ σκευοφόρα ἐνταῦθα ἄγοιντο ἢ ἀπίοιεν ἐπὶ τὸ στρατόπεδον. ἔδοξεν αὐτοῖς ἀπιέναι· καὶ ἀφικνοῦνται ἀμφὶ δορπηστὸν ἐπὶ τὰς σκηνάς. ταύτης μὲν τῆς ἡμέρας τοῦτο τὸ τέλος ἐγένετο. καταλαμβάνουσι δὲ τῶν τε ἄλλων χρημάτων τὰ πλεῖστα διηρπασμένα καὶ εἴ τι σιτίον ἢ ποτὸν ἢν, καὶ τὰς ἁμάξας μεστὰς ἀλεύρων καὶ οἴνου, ἃς παρεσκευάσατο Κῦρος, ἴνα εἴ ποτε σφοδρὰ τὸ στράτευμα λάβοι ἔνδεια, διαδοίη τοῖς Ἔλλησιν—ἦσαν δ' αῦται τετρακόσιαι ὡς ἐλέγοντο ἄμαξαι—καὶ ταύτας τότε οἱ σὺν βασιλεῖ διήρπασαν.

- 1. (a)  $\theta \epsilon \mu \epsilon \nu o \iota \tau \dot{a} \ddot{o} \pi \lambda a$  may be translated in three ways.
  - (b)  $\epsilon i$  . . . .  $\ddot{\eta}$ : by what other particles are double indirect questions introduced?
- 2. (a) δορπηστόν: give the Attic Greek for each meal.
  - (b)  $a\hat{v}\tau a\iota$  . . . .  $\ddot{a}\mu a\xi a\iota$ : why is the article not used?
- 3. Parse, giving chief parts: ἔστησαν, παρείη, τεθνηκότα, προεληλακέναι, διηρπασμένα.
- Account for the cases of the following words, and write their nom. and gen. in full in sing. and plu.: αὐτὸν, ἄλλων, ἀμάξας, βασιλεῖ, χρημάτων.
- 5. Translate and comment, where necessary, on the following extracts:
  - (a) ἄλλο δὲ στράτευμα αὐτῷ συνελέγετο ἐν Χερρονήσῳ τῆ κατ ἀντιπέρας ᾿ Αβύδου τόνδε τὸν τρόπον.
  - (b) ἐνταῦθα Ξέρξης, ὅτε ἐκ τῆς Ἑλλάδος ἡττηθεὶς τῆ μάχη ἀπεχώρει, λέγεται οἰκοδομῆσαι ταῦτα τὰ βασίλεια,

- (c) ὁ δὲ σίγλος δύναται έπτὰ ὀβολοὺς καὶ ἡμιωβόλιον ᾿Αττικούς.
- (d) ἐπεὶ δὲ κατεπέμφθη ὑπὸ τοῦ πατρὸς σατράπης Λυδίας τε καὶ Φρυγίας τῆς μεγάλης καὶ Καππαδοκίας.

## II.

# HOMER: ILIAD, BOOK I.

# B. Translate:

δς ἄρα φωνήσασ' ἀπεβήσετο, τὸν δ' ἔλιπ' αὐτοῦ χωόμενον κατά θυμόν ευζώνοιο γυναικός, τήν δα βίη ἀέκοντος ἀπηύρων. αὐτὰρ 'Οδυσσεύς ès Χρύσην ἵκανεν ἄγων ἱερὴν ἑκατόμβην. οί δ' ότε δη λιμένος πολυβενθέος έντος ίκοντο, ίστία μεν στείλαντο, θέσαν δ' έν νηὶ μελαίνη, ίστον δ' ίστοδόκη πέλασαν προτόνοισιν ύφέντες καρπαλίμως, την δ' είς "ρμον προέρεσσαν έρετμοις. έκ δ' εὐνὰς ἔβαλον, κατὰ δὲ πρυμνήσι ἔδησαν. έκ δὲ καὶ αὐτοὶ βαῖνον ἐπὶ ἡηγμῖνι θαλάσσης, έκ δ' έκατόμβην βησαν έκηβόλω 'Απόλλωνι: έκ δὲ Χρυσηὶς νηὸς βῆ ποντοπόροιο. την μεν έπειτ' έπι βωμον άγων πολύμητις 'Οδυσσεύς πατρὶ φίλω ἐν χερσὶ τίθη, καί μιν προσέειπεν " ω Χρύση, πρό μ' ἔπεμψε ἄναξ ἀνδρων 'Αγαμέμνων παιδά τε σοι άγεμεν, Φοίβω θ' ιερην εκατόμβην ρέξαι ὑπὲρ Δαναῶν, ὄφρ' ἱλασόμεσθα ἄνακτα, δς νῦν 'Αργείοισι πολύστονα κήδε' ἐφῆκεν."

- 1. Write the corresponding Attic of any Epic forms of nouns that may occur in this extract.
- 2. Give the derivations of the following words: ἐυξώνοιο, ἑκατόμβην, πολυβενθέος, ἱστοδόκη, ἡηγμῖνι.
- 3. Scan the last four lines, exhibiting quantities when necessary.

# III.

- Decline together (a) in the plural οὖτός ὁ ἀνήρ—τίς γυνή,
   (b) in the singular ἐγὼ βασιλεὺς ᾿Αγαμέμνων—σοφὸς ᾿Απόλλων.
- Write the 1st Aorist imperative Active of ἀγγέλω, μένω, δίδωμι, τιμάω, φαίνω.

- 3. Write the Modal Conjugation of:
  - (a) 2 Aor. Act. of  $\tau i\theta \eta \mu \iota$ .
  - (b) Perf. pass. of  $\sigma \tau \dot{\epsilon} \lambda \lambda \omega$ .
  - (c) 1 Aor. pass. of λαμβάνω.
- 4. Give the principal parts of the following verbs: ἄγω, αἰρέω, αἰοθάνομαι, ἵημι, καλέω.
- 5. Write the Perf. Inf. Passive of λείπω, πίμπλημι, τέμνω, ὅμνυμι, βάλλω.

# C. Translate into Greek:

And Clearchus spoke as follows: "I advise that this man be put out of the way as quickly as possible."—Thence Cyrus marched one day's journey, three parasangs, with all his army both Grecian and Barbarian drawn-up-in-line-of-battle.—For, in the first place, whilst still a boy, when he was being educated with his brother and with the rest of the boys, he was considered to be the best of all in everything.—"After this," "this being so," "about midnight," "at day-break," "at sun-set."—And when Cyrus learned that they had crossed he was pleased.

#### TV.

# D. Translate the following "unseen" passage:

ἐντεῦθεν δ' ἐπορεύθησαν σταθμοὺς δύο παρασάγγας δέκα μέχρι ὑπερηλθον τὰς πηγὰς τοῦ Τίγρητος ποταμοῦ. ἐντεῦθεν δ' ἐπορεύθησαν σταθμοὺς
τρεῖς παρασάγγας πεντεκαίδεκα ἐπὶ τὰν Τηλεβόαν ποταμόν. οῦτος δ'
ην καλὸς μέν, μέγας δ' οι κῶμαι δὲ πολλαὶ περὶ τὸν ποταμὸν ἡσαν. ὁ δὲ
τόπος οῦτος ᾿Αρμενία ἐκαλεῖτο ἡ πρὸς ἐσπέραν. ὕπαρχος δ' ἡν αὐτῆς
Τιρίβαζος, ὁ καὶ βασιλεῖ φίλος γενόμενος, καὶ ὁπότε παρείη, οὐδεὶς
ἄλλος βασιλέα ἐπὶ ἵππον ἀνέβαλλεν. οῦτος προσήλασεν ἱππέας ἔχων,
καὶ προπέμψας ἐρμηνέα εἶπεν ὅτι βούλοιτο διαλεχθῆναι τοῖς ἄρχουσι.
τοῖς δὲ στρατηγοῖς ἔδοξεν ἀκοῦσαι· καὶ προσελθόντες εἰς ἐπήκοον
ἡρώτων τί θέλοι.

#### FRENCH.

Examiner . . . . . John H. Kerr, B.A.

# CLASS "A."

- I. Indicate the pronounciation of Monsieur, Vinaigre, Saigner, Pecque.
- II. Name the Possessive Adjectives, Possessive Pronouns, Interrogative Pronouns.

- III. Give rules governing the use of Cent and Mille.
- IV. Give three conjunctive phrases used with the Infinitive, and three with the subjunctive mood.
  - V. Classify the Tenses and tell how each is formed.

# VI. Conjugate:

- (a) Vendre in Imperfect Subjunctive negatively.
- (b) Sen Aller in Future Indicative interrogatively.
- (c) Envoyer in Conditional.
- (d) Voir in Preterite Indicative.

# VII. Translate:

- (a) My hands are cold.
- (b) What will you do during that time?
- (c) Did your father rise early to-day?
- (d) We divide with our friends all that we have.

# VIII. Translate:

Le tyran tombe, bégaie sa fureur, et son âme s'exhale au milien des imprécations. Tell a déjà disparu; plus léger que le faon, il s'est précipité du sommet du roc, il court, il vole sur la glace; il gagne, traverse des sentiers déserts, et prend le chemin d'Altdorf.

# -MATHEMATICS.

#### GEOMETRY.

Examiner......Geo. E. Robinson, B.A.

Time: Three Hours.

- I. In the triangle ABC, A is greater than, equal to or less than C, according as a is greater than, equal to or less than c; and conversely. Enunciate the propositions of which this is a summary. Prove one of them.
- II. Give the particular enunciation of I. 44, draw the figure and write a synopsis of the construction and demonstration.
- III. If a straight line be divided into any two parts, the rectangle contained by the whole line and one of the parts is equal to the square on that part together with the rectangle contained by the two parts.
  - Enunciate  $(a+b)^2 (a-b)^2 = 4ab$  and prove by the line method.

- IV. Given  $\sqrt{5} = 2.23606$ , determine the position of the point of medial section of a line 12 inches long.
  - What do you understand by the orthogonal projection of one straight line upon another?
  - Include II. 12 and 13 in one enunciation.
  - V. The circumferences of two circles cannot cut one another in more than two points.
    - What is the scope and plan of Book IV.?
- VI. When is one geometrical ratio said to be greater than another? Show geometrically that 4:5 is greater than 7:9.
  - State and prove the proposition ex aequali in proportione perturbata.
- VII. If two triangles be equiangular to one another, the sides about the equal angles shall be proportionals, those sides which are opposite to equal angles being homologous.
  - What are similar rectilineal figures?
- VIII. Construct a triangle, having given a median and the two parts into which the median divides the angle.
  - IX. Two circles touch externally at C; the common tangent at C meets another common tangent at F. Prove that CF is a mean proportional between the radii.

#### ALGEBRA.

Examiner......Geo. E. Robinson, B.A.

Time: Three Hours.

- I. Multiply x-5 by x-3. Explain your work carefully and test the accuracy of your result by making x=10.
- II. Factor  $24a^2 26a 63$ ,  $1 b^2 c^2 + 2bc$ ,  $x^2 3x 2$  and  $m^4 12m^2n^2 + 4n^4$ .
  - Find the continued product of a+b+c, a+b-c, a-b+c and -a+b+c.
- III. Extract the cube root of  $x^6 + 6x^5 + 3x^4 28x^3 9x^2 + 54x 27$ .
- IV. In a mile race A gives B a start of 100 yards and beats him by 15 seconds. In the second trial A gives B a start of 45 seconds and is beaten by 22 yards. Find the rate of each in miles per hour.

- V. If  $\alpha$  and  $\beta$  are the roots of the equation  $x^2 + px + q = 0$ , express  $\alpha^2 + \beta^2$  and  $\alpha^3 + \beta^3$  in terms of p and q.
- VI. Divide  $a b c 3a^{\frac{1}{3}b^{\frac{1}{3}}c^{\frac{1}{3}}}$  by  $a^{\frac{1}{3}} b^{\frac{1}{3}} c^{\frac{1}{3}}$ . Solve the equation  $4x^{\frac{1}{3}} - 3x^{-\frac{1}{5}} = 4$ .
- VII. The product of two dissimilar quadratic surds cannot be rational. Explain the technical terms and prove the proposition.

Solve  $x^2 - 3x - 6\sqrt{x^2 - 3x - 3} + 2 = 0$ .

- VIII. What number must be added to each term of the ratio 5:37 to make it equal to 1:3?
  - When a body falls from rest, its distance from the starting point varies as the square of the time it has been falling: if a body falls through 402½ feet in 5 seconds, how far does it fall in 10 seconds? also, how far does it fall in the 10th second?
  - IX. Find the fourth term in each of the following series: (1)  $2, 2\frac{1}{2}, 3\frac{1}{3}, \cdots$  (2)  $2, 2\frac{1}{2}, 3, \cdots$  (3)  $2, 2\frac{1}{2}, 3\frac{1}{3}, \cdots$ 
    - If the arithmetic mean between a and b is twice as great as the geometric mean, show that  $a:b=2+\sqrt{3}:2-\sqrt{3}$ .

#### TRIGONOMETRY.

Examiner......Geo. E. Robinson, B.A. Time:  $2\frac{1}{4}$  Hours.

- I. Divide 33° 6′ into two parts, so that the number of English seconds in one part may be equal to the number of French seconds in the other part.
- II. Make a table exhibiting each of the six trigonometrical ratios in terms of all the others.
- III. Write the tangents of 0°, 15°, 30°, etc., up to and including 180°. Give a definition of tan A applicable to angles in the second quadrant as well as in the first.
- IV. From the formulae expressing sin A and cos A in terms of functions of  $\frac{A}{2}$  deduce tan A, cot A and sec A in terms of tan  $\frac{A}{2}$ , cot  $\frac{A}{2}$  and sec  $\frac{A}{2}$  respectively.

- V. Use your Mathematical Tables to find  $\sqrt{5}$ , log  $\sqrt[5]{\cdot}0031415$ , sin 23° 27′ 8″ and L cos 66° 32′ 50″.
- VI. The area of a triangle is  $\sqrt{s}$  (s-a) (s-b) (s-c). Trace briefly the steps by which this result was arrived at.
- VII. Given  $\sin A + \csc A = 2\frac{1}{1640}$ , find  $\sin A$ .
  - A perpendicular is drawn from the angle A of a triangle on the side BC, meeting it at D; and a perpendicular from B on the side CA, meeting it at E; show that if C is acute, DE=c cos C.
- VIII. A and B are two consecutive milestones on a straight road and C is a distant spire. The angles ABC and BAC are observed to be 45° and 120° respectively. Show that the distance of the spire from A is 2.732 miles.

## ARITHMETIC AND MENSURATION.

Examiner.....John H. Kerr, B.A.

# CLASS "A."

- I. The discount on a promissory note of \$100 amounted to \$7.50, and the interest made by the banker was 5.405 % per an.; find the time for which the note was discounted.
- II. If 14 oxen eat the grass on 2 acres in 3 weeks, and 16 oxen eat the grass on 6 acres in 9 weeks, how many oxen will eat the grass on 24 acres in 6 weeks, the grass on each acre being equal at first and growing uniformly?
- III. What % of the first loss is the difference between 8% loss on the cost and 8% loss on that selling price?
- IV. Having received a stock dividend of 6%, I find that I own 291½ shares. How many had I at first?
- V. What sum should be paid for a \$100 debenture to run for 20 years at 4% per an., in order that the investor may realize 5% per an. on his outlay.
- VI. What will it cost to paint a cistern without a cover, inside and out, at 12c. a square yard, if the cistern is 30 ft. long, 21 ft. wide, and 8½ ft. deep?
- VII. There are four cannon balls of diameters 3, 4, 5 and 6 inches respectively. Shew that the weight of the largest is equal to the combined weight of the others.

- VIII. Compare the volumes of a right circular cone and a cylinder of the same altitude and base.
  - IX. A telegraph wire is 70 kilometres long, and 2¼ millimetres in diameter. Find the volume in cubic decimetres.
  - X. At what distance from the top must a cone, 14 inches high, be cut parallel to the base, that the volumes of the two parts may be equal?

# BOOK-KEEPING.

Examiner.....John H. Kerr, B.A.

# CLASS "A."

- Write definitions of: Book-keeping, Promissory Note, Consignment, Account Sales.
- II. What is the difference between Shipment Account and Shipment Co. Account?
- III. A and B are partners, agreeing to share profits and losses according to capital invested. A invests \$6,500, B \$5,400. At the end of five months A withdrew \$700, and B invested \$400. At the end of the year they have gained \$4,200. How should this be divided?
- IV. Average the following:—

# JOHN SMITH.

1894	-							1894					
Aug.	18	To	Mdse,	90	days			Sept.	20	Ву	Cash	1000	
Sept.	20	11	21	60	11			Oct.	10	11	11	500	00
Oct.	1	11	11	30	11			Nov.	5	н	H	275	00
Nov.	5	11	11	30	11	335	00						

V. Give Day-book entries corresponding to :-

(a) Bills payable Dr\$500	00		
Interest and Discount 11 4	00		
${\rm To}  {\rm Cash} \ldots \ldots \ldots \ldots$		\$200	00
Bills payable		304	00

VI. Give three cases in which the Trial Balance is not a test of the ledger's correctness

# VII. Journalize:—

- (a) A shipped to B for sale on joint account 1500 bbls. flour
   @ \$6.00. Paid freight \$75 with check.
- (b) A shipped to B for sale on commission mdse. \$800.

## CHEMISTRY.

Examiner................J. K. Henry, B.A.

Time: Two Hours.

- I. A gram of Na is used to decompose water. How many litres of H will be obtained, barometer 760 mm., thermometer 0° C.? Indicate how you would express your answer in cu. in.
- II. Explain by the aid of equations only the following reactions:
  (a) Sulphuric Acid on copper,
  (b) Chlorine on slaked lime,
  (c) Phosphorus burning,
  (d) Sulphuric Acid on common salt,
  (e) Sunlight on Chlorine water.
- III. Name the compounds of N and O. Describe the preparation of any three of them.
- IV. Write the chemical formulas of Alum, Chalk, Saltpetre, Calomel, Alcohol, Baking Soda, Iron Rust, Muriatic Acid, Sand and Sugar.
  - V. How would you show the proportion of N and O in the air? Name other substances in the air. Is air a chemical compound?
- VI. How may Sulphuretted Hydrogen be prepared? A current of this gas is passed through three solutions containing (a) Silver Nitrate, (b) Lead Acetate, (c) Copper Sulphate. What takes place?
- VII. Explain the terms Chloride, Anhydride, Normal Salt, Acid Salt, Monad.
- VIII. Describe Marsh's test for Arsenic. Give tests for Copper and Sulphuric Acid.
  - IX. How may Chlorine be prepared? Having obtained a few jars what experiments would you make to show its principal properties?
    - X. Write on Acetylene.

# WACRETH AND ENGLISH GRAWWAR.

Examiner..... J. K. Henry, B. A.

Time: Three Hours.

In each Division five questions only to be answered, which must include I and II in A, and VI and VII in B.

A.

- I. What are the main facts of Shakespeare's life? Name a few of his earlier and later works.
- II. Sketch the character of Macbeth, supporting your statements from the play, and introducing appropriate quotations.
- III. Quote either Lady Macbeth's soliloquy on receiving Macbeth's letter, or Macbeth's soliloquy beginning, "If it were done when 'tis done . . ." Quote any other striking passage of at least six lines.
- IV. Explain the words as used in the play: Foisons, harbinger, seeling, sleave, coign, graymalkin, gallowglasses, presently, sightless, convince.
  - V. Explain the following passages, rewriting them in plain prose where necessary:
    - (a) Champion me to the utterance.
    - (b) Though the treasure Of Nature's germens tumble all together, Even till destruction sicken.
    - (c) Norway himself,
      With terrible numbers,
      Assisted by that most disloyal traitor,
      The Thane of Cawdor, began a dismal conflict,
      Till that Bellona's bridegroom, happed in proof,
      Confronted him with self-comparisons,
      Point against point rebellious.
    - (d) My thought whose murder yet is but fantastical, Shakes so my single state of man that function Is smothered in surmise, and nothing is But what is not.
    - (e) My mind she has mated.
    - (f) I am not to you known, Though in your state of honour I am perfect.
    - (g) Why in that rawness left you wife and child, Those precious motives, those strong knots of love, Without leave-taking?

VI. Name the speaker of each extract in V. Point out peculiarities of scansion in (c). Reproduce the sleep-walking scene.

B.

- I. Into what five periods may the historical development of English be divided?
- II. Define Adjective, Tense, Preposition, Adverbial Adjunct Criticize the following statements or definitions:—
  - (a) "The Infinitive makes no statement whatever."—Smith.
  - (b) "The Participle in -ing attributes some incomplete action or state to the noun to which it refers."—Smith.
  - (c) A Transitive verb is one that has an object.
- III. Write Etymological notes on kine, Webster, husband, lord, eleven, nearer, uncouth, willy-nilly, farther, art.
- IV. Write on the derivation of Adverbs.
  - V. Write grammatical notes on the following passages from Macbeth:—
    - (a) Some holy angel Fly to the court of England and unfold His message ere he come.
    - (b) Augurs and understood relations have By magot-pies and choughs and rooks brought forth The secret'st man of blood.—What is the night?
    - (c) Yet must I not [sweep him from my sight]
      For certain friends that are both his and mine,
      Whose loves I may not drop, but wail his fall
      Who I myself struck down.
    - (d) Extract (c) in V. of A.
- VI. We can but try.

Say what he will, he will never convince me.
Parse the italicized words,

- VII. Refer to the play of Macbeth to show:
  - (a) The ease with which compounds could be formed.
  - (b) A certain freedom in the matter of grammatical concord and government.