

BLACKMER,	licious Ice Cream and Ice Cream Soda, which we will manufacture with all flavors, and served up in the neatest style with sponge cake. We have also received another fine assortment of English and French Confectionery	A correspondent has sent us a very use- ful formula which is thought to be quite new. In finding the contents of cylin- drical vessels the ordinary rules call for the use of aggravating decimals or frac- tions. This neat little device does away with all the bother. Let the diameter of any cylindrical tank be given in fact.	<ul> <li>ing reading.</li> <li>3. What are inflections?</li> <li>4 What does the rising inflection indicate? Give an example.</li> <li>5. What is the use of the circumflex or double inflection? Give an example.</li> <li>6. What is pitch? What are the different degrees of pitch used in reading?</li> </ul>	<ul> <li>6. What is the cause of animal heat? How does its amount differ in different groups of animals, and with what other features of structure or habits is this amount usually associated?</li> <li>7. Explain the deleterious effects likely to result from the use of tabacco, alcohol or opium.</li> </ul>	
THE "GLOBE"	And a Full Line of Bananas, Oranges, Lemons, Pineapples.	then take five times the square of the diameter; take off 2 per cent. and the re- sult is gallons per foot high. This is sim- plicity itself. Both the simplicity of the rule and the near approach of its results to the accurate contents will appear from	Book Keeping. CLASS I Time, 1 hr. 1. What advantage has the double entry over the single entry method of book-keeping?	Note.—Five questions, including the last, make a full paper. Chemistry and Agriculture. I. II. Time, 1 hr. 30 m. PART I.	
DB PRINTING -:-	Walnuts, Filberts, A fine line of Cigars, Cigarettes, and Fine Cut Tobacco. Hot Peanuts always on	an example or two: Let the tank be 10 feet diameter (inside of course). 10x10=100 5	2. What is trial balance? 3. In closing a property account, on which side should you place an inventory entry showing an asset? What other entry is usually needed to close the ac- count? To re-open the account, on which	<ol> <li>How would you show the presence of carbonic acid in the air? How may it be made artificially? its relations to ani- mal and vegetable life? Its chief mineral compounds?</li> <li>From what source do plants derive</li> </ol>	
-:- DEPARTMENT.	Give us a call.	500 Take off 2 per cent10 490gallons per foot deep which is within one gallon of the accurate measurement (490.87 gal- lons).	side should you bring down your balance representing the asset? 4. Write out a specimen of a negotiable note. 5. Make the proper entries (ledger only) for the following transactions;—May 1.	their nitrogen? into what vegetable pro- ducts does it enter? from which is it absent? How do these differ in their relative nutritive value and why? 3. How far is the character of soil de- dependent (first) on its origin? (secondly)	
We have in Stock a Complete Line of	Confectioner	Take an 11 foot tank : 11x11=121 5 605	Sold H. M. Block, mdse., \$700; for which 1 received cash \$200, and his note at 3 months for balance. May 4. Discounted above note at Peoples Bank receiving cash less 90	on tillage? (thirdly), on the extent and method of cropping? 4. Explain the chemical nature of wheat flour, milk, cheese, butter, eggs,	
Bill Heads,	Watches and Jewelry	2 per cent 12.1 592.9gallons per foot deep, which is only one gallon	days' discount at 6 per cent. May 5. Gave towards a fund for a public library, cash \$500.	5. The following substances are all taken, more or less, into the body as foods, viz.; sugar, salt, lime, iron, water, oxygen.	
Letter Heads, Statements, Tags, Etc.,		away from the accurate contents (593.96). A rule so simple and so useful almost de- serves a place in the common school texts. A note by the author draws attention to the fact that the 2 per cent to be sub- tracted is always just one-tenth of the first term written down—10 for 100 and 12.2 for 121 and so on.	Geometry. CLASSI. F. II. M. Time 1 hr. 30 min. 1. If the side of an equilateral triangle is equal to unity find the length of the perpendicular from any vertex to the side opposite. In an isoscles right-angled tri- angle if each of the equal sides is equal to unity find the length of the hypote-	<ul> <li>Explain the part subsequently taken by each.</li> <li>6. What is fat? What kinds of food favor its formation? What part does it play in animal life?</li> <li>7. State what you know of the element sodium? What is soda? Whence is it obtained? For what use?</li> <li>8. Compare the burning of hydrogen,</li> </ul>	
Which we will Print tn the Latest Styles and at asonable Rates,		Normal School Papers. Concluded. Algebra. CLASS I. F. AND II M. Time, 1½ hrs.	2. Describle a parallelogram that shall be equal to a given triangle and have one of its angles equal to a given recti- lineal angle.	street gas, sulphur, phosphorus and charcoal, What are the characters of the products in each case? PART II.	
edding, Invitation, Visiting, Programme,	MANULU ISED	1. Find the highest common factor of $x^3-x$ , $2x^2-4x+2$ , $x^3+x^2-2x$ . 2. Find the least common multiple of $5x^3+2x^2-15x-6$ and $7x^3-4x^2-21$ $x+12$ 3. Find the value of $\frac{4}{9(x-2)} + \frac{5}{9(-11)}$	<ul> <li>3. To a given straight line to apply a parallelogram which shall be equal to a given triangle, and have one of its angles equal to a given rectilineal angle.</li> <li>4. In a right angled triangle what is the square of the side opposite the right</li> </ul>	changes are illustrated in the firing of a gun, in the ignition of a match, in the combustion of mixed H. and O.? 2. What are the common acids? From what sources are they derived? What do	

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3(x+1)2 4. Solve(x+a)(x+b)=x(x+c)Also solve 4(10x-3)-64(3-2x)=3





6. Find two numbers whose difference is 6, such that if 1-3 the less be added to 1.6 the greater, the sum shall be equal to ed.

1.3 the greater diminished by 1.5 the

less. 7. A after doing three fifths of a piece following: of work in 30 days finishes it in 10 days

with the help of B. Find in what time each would do it.

8. A certain number of two digits is equal to five times the sum of its digits; right angles. After proving this, state its and if 9 be added to the number the converse. digits are reversed; find the number.

Domestic Economy. CLASS I, II, III. Time, 11 hrs.

(For Female Candidates only.) PART I-THEORY.

1. Why should especial care be taken of the cellar and pantry in a home? 2. Exercise and Rest-Explain fully: -(a) What is to be aimed at in exercise? (b) Why is competition in games often injurious? (c) How do muscles rest? 3. What hints can you give for the

proper measure of heat to cook veal-a loaf of bread-old potatoes, and beef hash-

pupils on : 'Earning Spending and Saving.'

'cast off,' 'widen,' 'decrease' 'purl.'

PART II.-PRACTICE

ton.) Work the following on the cotton

angle what is the square of the side opposite the obtuse angle equal to? In any triangle what is the square of a side op-

posite an acute angle equal to? 5. If a straight line be bisected and produced to any point the rectangle contained by the whole line thus produced and the part of it produced, together with the square on half the line bisected, is

equal to the square on the straight line made up of the half and the part produc-

> N. B.-Female candidates for class I will omit the 3rd and 5th and work the

(a)Equal chords in a circle are equally distant from the centre and converse.

(b) The opposite angles of a quadrilateral inscribed in a circle are equal to two

## Teaching and School Management.

Time, 2 hrs. CLASS I. 1. Why should a teacher have a practical knowledge of psychology as a preparation for teaching?

II. How is skill in teaching and managing a school to be acquired? What is the

relation between knowledge and skill? 111. What is the distinction between the oral and the text book stages of teaching a subject? Outline a plan of oral lessons for any one year or standard, in one of the following subjects, viz.: number, color, composition, health.

IV. On what general principles would you teach the following subjects from the text book: geography, arithmetic, gram mar, reading. In addition to the general answer select a topic from one of the

subjects named and show, in detail, how (Material, ‡ yd. undressed white cot- you would give a lesson on it.

V. What do you regard as the essentials

an obtuse angled tri- they all contain? What takes place when they are treated with metallic elements? Illustrate in each case?

3. Give symbols for ammonia gas, ammonia water, ammonium chloride, ammonium nitrate.

4. What gaseous products result from the action of nitric acid upon copper; hydrochloric acid on zinc; sulphuric acid on chalk? If possible, formulate the reactions involved.

5. Give symbols for hydrochloric acid. water, quick lime, calcium chloride, hydrogen sulphide, ammonia gas, carbonic acid, potassium hydrate. How may the same symbols be written so as to indicate the valency of the elements involved?

6. How would you proceed to get chlorine out of common salt? To get nitrogen from air? Hydrogen from water?

7. What right have we to express chemical changes in the form of equations? What amount of matter does an equation represent? Contrast a chemical with an algebraic equation.

8. Mention the principal natural compounds of the following elements: Iodine. Sulphur, Calcium, Phosphorus Silicon. Magnesium, Aluminum.

9. State what you know of the composition of Porcelin, Steel, Bronze, Glass, constitute a full paper.

Continued on page 6.

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