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- 

$\left|\begin{array}{l}\text { fünished ybut i } 1 \text {. Cut añd malite a illght } \\ \text { dress sieevit with at buttonhole in wrist- }\end{array}\right|$ 1 Time, 1 hr . (2) Style. How may a good style be se-
ured? 2. 2. Point out the distinction between
the following pairs of synonyms, and con-
truct short sentences to struct short sentences to illustrate the
accurate use of each: custom, habit; character, reputation; strong, powerfulor ce language. Define the following,
giving at least one giving at least one example of each perbole, irony.
4. Punctuate the following:So saying her rash hand in evil hour
Forth reaching to the fruit she pluck Forth reaching to $\begin{aligned} & \text { she ate } \\ & \text { Earth felt the wound and nature fro }\end{aligned}$. Earth seat ig That all was lost
5. Distinguish between rhyme and
fhythm. State the conditions which are rhythm. State the conditions which are
essential to perfect rhyme. Give perfect 6. Scan the following lines. Name the
metre. 'Many a aitre. 'Many a night I saw the Pleiads,
rising thro' the mellow shade, gliter like

## - ICE - GREAM

## r

 to a
## 

## ror

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Lemons, Pineapples. Walnuts, Filberts,
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Confectioner

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Now the summer has begun we
the weather is getting warm we
are once more to the front with de-
licious Ice Cream and Ice Cream licious Ice Cream and Ice Cream
Soda, which we will manufacture with all flavors, and served up We have also received another
fine assortment of English and 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 aggra ating decimals or fracwith all the bother. Let the diameter of any cylindrical tank be given in feet;
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 simpicity itself. Both the simplicity of the
rule and the near approach of its result to the accurate contents will appear fiom
an example or two: an example or two
Let the tank be

\section*{| per |
| :---: |
| of |}

of foot deep which is within one gallon
of the accurate measurement ( 490.87 gal(ions).
Take an 11 foot tank:

per foot deep, which is only one gall
per foot deep, which is only one gallon
away from the accurate contents (593.96) away from the accurate contents (593.96).
A rule so simple and so useful almost deA 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 tracted is always just one-tenth of the
first term written down-10 for 100 and irst term written down
12.2 for 121 and so on.


1. Find the highest common factor of $x^{3}-x, 2 x^{2}-4 x+2, x^{3}+x^{2}-2 x$.
2. Find the least common multiple of $5 x^{3}+2 x^{2}-15 x-6$ and $7 x^{3}-4 x^{2}-21 x+12$
3. Find the value of 4
$-\frac{1}{3(x+1)^{2}}$ 4. Solve( $x$
4. Solve $(x+a)(x+b)=x(x+c)$

Also solve $4(10 \mathrm{x}-3)-64(3-2 \mathrm{x})=$
5. Solve $\mathrm{x}+2$

6. Fuc two numbers whose difference
is 6 , such that if 1.3 the leas be added to
1.6 the great 1.6 the greater, the sum shall be equal to
1.3 the greater diminished by 1.5 the
less.
l. A after doing three fifths of a piece
of work in 30 days finishes it in of work in 30 days finishes it in 10 days
with the help of B. Find in what time with the help of
each would do it.
8. A cert
8. A certain number of two digits is
equal to five times the sum of its digits and if 9 be added to the number the
digis are reverself find digits are reversed; find the number.
nomestic Ecener CLass I, II, III. E. Time, (For Female Candidates only.)
PARII-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 aimea at in exercise? (b) Why is competition in games often injurious? (c) How do muscles rest? 3. What hints can ycu give for the
proper measure of heat to cook veal-a loaf of bread-old potatoes, and beef hash
4 Give an outline lesson to your olde p Give an outline lesson to your olde
pupils on: 'Earning Spending and Sav-
ing, ing.'
2. In Knitting how do you 'cast on,
'cast off,' 'widen,' 'decrease' 'purl', Part II.-Practice (Material, \& yd. undressed white cot-
ton.) Work the following on the
ood Ischcol disciplin
ose to secure them?
VI. How would you deal with such raults and offences as (a) inattention, ariiness, talking, noisy and careless
movements, (b) falsehood, disobedience, copyiug at examinations, impertinenc VIect one each from (a) and (b).
VII. Show, on scientific princi necessity for proper ventilation in school
rooms.
VIII. What are the dangers of impropor admission and control of light? What
is the nearest approach to ideal conditions of lighting school rooms. IX. What are the principles on which
time tables should be constructed? What are the difficulties to be met in arranging a daily programme of wort for a a school of four or more classes, and how may hese difficulties be partially overcome. Pestalozzi or Rousseau.
N. BI.-II. and IV-VII. and VIII. are alternates.
Phystology and Hygtene.
II. Time, 1 hr .
3. What organs fill the chest of man? 1. What organs fill the chest of man?
How are they connected and upon what mechanical arrangements does their ac-
ion depend? tion depend?
4. Explain the
5. Explain the nature of disease, and

2me of
nate.
3.
3. What simple rule should govern the
taking of food as to time, quality and
4. What canses led (1) to the vitiation,
(2) to the purification of the air as a medium of respiration?
5. What is the duty of glands as organs
of the body? Name the chief glands and of the body? Name the chief glands and
their special office. 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 mount usually associated?
to result from the use of tabacco, a:cohol or opium.
Nors.-Five questions, including the Notr.-Fiv
Chemistry and Agricultur
II. Time, 1 hr .30 m .

Part I.

1. How would you show the presence
carbonic acid in the air? How may it be made artificially? its relations to animal and vegetable life? Its chief mineral
compounds? compounde?
2. From w
their nitrogen? into what plants derive their nitrogen? into what vegetable pro-
ducts does it enter? from which is it
absent? How do these differ in their absent? How do these differ in
relative nutritiye value and why?
relative nutritiye value and why?
3. How far is the character of soil de-
dependent (first) on its origin? (secondly) dependent ( (irst) on its origin? (secondly)
on tillage? (thirdly), on the extent and method of cropping?
4. Explain the chemical nature of
wheat flour, milk, cheese, butter, eggs,
walt, soap.
5. The following substances are all
6. The following substances are all
taken, more or less, into the body as foods, viz; sugar, salt, lime, iron, water, oxygen.
Explain the part subsequently taken by
each. What is fat? What kinds of food
7. 

favor its formation? What part does it
play in animal life? play in animal life?
7. State what you know of the eleme 7. State what you know of the element
sodium? What is soda? Whence is it obtained? For what use?
8. Compare the burning of hydrogen, street gas, sulphur, phosphorus and
charcoal, What are the characters of the charcoal, What are the c
products in each case?

1. What physical and what chemical
changes are illustrated in the firing of a
gun, in the ignition of a match, in the combustion of mixed $\mathbf{H}$, and $\mathbf{O}$ ? 2. What are the common acids? From
what sources are they derived? What do they all contain? What takes place when they are treated with metallic elements? 3. Give in each case?
monia water, ammonium chloride, ammonium nitrate.
2. What gaseons products resulf from the action of nitric acid upon copper; hydroch-
loric acid on zinc; sulphuric acid on chalk? If possible, formulate the reactions in.
3. Give symbols for hydrochloric acid,
wates, quick lime, calcium chloride,
hydrogen suphide, ammonia
bonic acid, potassium hydrate. How may
he same symbols be written so as to
indicate the valency of the elements in-
volved?
4. How
5. How would you proceed to get
chlorine out of common salt? To get
nitrogen from air? Hydrogen from water?
6. What right have we to express
chemical changes in the form of eqna-
tions? What amount of fmatter coess an
ions? What amount of matter coess an
equation represent? Contrast a chemical
with an algebraic equation.
7. Mention the principal natural co pounds of the following elements: Iodine, Mangesium, Aluminum.
8. State what you know of the com-
 Continued on page

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 home testimonials than all the rest to-
gether. Full list free.
paper. Whention this

