

reaction results?

P. 6

7. Give symbols for the following sub



8. Enumerate, as far as you can, the useful pro-lucts derived from the distillation of coal and coal tar, referring them to their proper chemical groups.

9. Where is cane sugar found in nature? How is it refined? Into what is it resolved by fermentation? Under what conditions does the latter process take place?

10. From what sources are the following substances derived : Roseine, soap, glass, carbolic acid, alum, phosphorus. Note-Six questions make a full paper.

Plane and Solid Geometry.

GRAMMAR SCHOOL. Time, 1 hr. 30 min. of its middle point

2. Shew how to construct an angle equal to one-fifth of a right angle.

rrove mat tria as will make the proof an application of the charge his duties. test above mentioned.

4. Name the five regular Polyhedra and establish a school in a District the rate-payers state how their solid angles are formed? Why of which refuse to vote sufficient money for can there not be more than five regular the purpose?

Polyhedra?

5. When is a plane perpendicular to a plane? If a straight line be at right angles it, must be at right angles to that plane.

6. If two planes, which cut one another, be each of them perpendicular to a third plane, their common section must be perpendicular to the same plane,

Algebra.

Time, 1 hr, 30 min. GRAMMAR SCHOOL. 1. If ax+by+cz=o and a'x+b'y+c'z=0 Piove be'-b'e ca'-c'a ab-a'b 2. Solve by any method ax+by+cz=1a'x+b'y+c'z=d'a''x+b''y+3''z=d''

3. Shew that $3\sqrt{3} = \sqrt{6561}$ 4. Solve the equation (x2+5x) 2-8 (x2+5x) = -85x)-84=0 5. Solve $x^2 + xy = 15$

sweep into the younger day : Better fifty years of Europe than a cycle of Cathay.' d. 'Step by step we gain'd a freedom

known to Europe, known to all; step by step we rose to greatness,-thro' the tonguesters we may fall.'

c. 'Thro' the shadow of the globe we

7. Discuss briefly the leading qualities o Tennyson's style. Quote from any of his poems lines in which the sound is made to be 'an echo to the sense.' N. B.-Candidates for Grammar School

License will substitute Question 7 for Question 6; those for 1st class will work the first six questions only.

School System.

Time, 1 hr. Killed His Child and Then Threw Himse) i Before a Train. GRAMMAR SCHOOL AND I. 1. In regard to the support of schools show

(a) the basis on which Provincial Grants are 1. A ladder slips down between a vertical made, (b) how the county fund is raised and wall and a horizontal plane, what is the locus distributed, (c) how the District assessment is levied.

> 2. What are the duties and powers o Trustees in estient to school property.

ndes are in proportion?

altitude are ed (a) in case of the death of a Trustee, (b to one another at their bases, in such a way when a Trustee declines or neglects to dis

4. What are the provisions of the law to

5. What are the general duties and powers of the Board of Education?

6. In what respect do General meetings of to a plane, every plane which passes through rate-payers differ from Special meetings?

Animal and Vegitable Physiology. GRAMMER SCHOOL. Time, 1 hr. 30 mim. 1. Of what use are bones? How many are there in the body? Classify them, and

show by example, how those of each class are specially adapted to their proper use. locked. After some difficulty she suc-2. Explain the nature and use of car-

tilage, marrow, periosteum tendons. 3. Explain the nature of muscular

tissue. How are muscles classified? Why do blood vessels and nerves ac company muscles?

and had made a hasty departure. Cards 4. Describe the skin and name its and beer bottles were strewn around, and different layers. What is the function of the room was otherwise in an untidy coneach? What are the appendages of the dition. The Coroner Mr. Tait, assisted skin? What connection has the condiby Dr. Herkle, made an antopsy on the hand. tion of the skin with the general health? child's body and were satisfied that death Why is bathing important to health?

how do you account for thunder and PAINTPER lightning?

tricity only attracts electrified bodies, (b

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here they engage

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old boy, suddenly disappeared with

wife yesterday morning and their ch

before was found dead in a few ho

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A. J. MACHUM,



lingering about for a few minutes

house without saying anything as to

were going. When at eight o'clock

they did not return, Mrs. Hausen

became alarmed about the child and in-

door of the room used by the Dorans

rified to find the dead body of the infant

there was every evidence that the occu-

pants had indulged in a night of carousal

did not result from natural causes. Sev-

xy-y2=2 6. The first term of an arithmetic progression is 4 and tenth term=22: find the con mon difference, and the sum of 20 terms. modes of growth. 7. Expand (a+b)n and from it derive the expansion of 1+n)n 8. Given $ex = 1 + x + 2 + + 3 + \dots$

find the value of (ex+ez)

History of Education-Teaching and School Management

GRAMMAR SCHOOL CLASS Time, 2 hrs. of education.

II. Describe the representative school of methods of instruction, (b) discipline.

III. What is the debt which modern edu- plant? cation owes to Bacon, Comenius, Rousseau, Pestalozzi, Freebel?

IV. Give a brief account of the educational bulb: of a potato tuber; of a pine cone. philosophy of Herbart.

V. What do you regard as the aim of education (a) the intellectual, (b) the moral and ethical, and (c) the physical sides? In what ways do you propose to realize your ideal in each?

VI. What subjects of instruction do you regard as essential in a course of instruction for grammar schools, and why?

VII. How would you teach any one of the following subjects, viz : English composition, algebra, botany, a Greek author-Homer, for instance?

would you chiefly rely for the discipline of a superior or grammar school?

school, for the profitable employment of those pupils who do not study the classics, during of n sides each side being=a the time devoted to Latin and Greek?

I. Contrast the Greek and Roman systems florescence, axil, placenta, pappus, bract, catkin, drupe, compound ovary, involucre. 9. In what several ways may plants the middle ages in respect to (a) subjects and climb? Which method would in your opinion, be most advantageous to the

sential parts, giving reasons.

future use?

10. Explain the nature of a pea blossom; of an apple; of a strawberry; of an onion

Note.-Six questions, equally divided between vegetable and animal physiology, constitute a full paper.

Practical Mathematics. Time 1 hr. CLASS I.

sine, Cosine, secant, cosecant and cotan-

gent. 2. If we take for our angular unit that Fresh Fish at All times. Next angle at the centre whose arc is equal in length to the radius how would the value

of the following angles be expressed: VIII. On what motives and influences 180°, 221°, 1°, 60°, A degree. 3. Given two sides and the included

angle of a plane triangle shew how to find IX. How would you provide, in a grammar the remaining parts.

> 4. Find the area of a regular polygon 5. A field A B C D E F is formed by

5. Relate the differences of structure eral bad bruises were found on the front between endogenous and exogenous stems and back of the child's head. Describe, with examples, their respective Doran's decapitated body was found

shortly after four o'clock yesterday after-6. What is the food of plants? How do noon by the tracks of the Rome, Waterthey obtain it? and how do they make ton and Ogdensburg railroad, one mile use of it? How may it be stored for east of Windsor Beach. The woman was

found walking on the track a little west 7. Distinguished (1) in the leaf and (2) of where the body of Doran lay, and was in the blossom, essential from non-es-

placed under arrest. She told the coroner that her husband had killed the 8. Explain the use of the words inchild the previous night and threw himself in front of a train yesterday afternoon with the above result.





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