

POOR DOCUMENT

P. 6.

TEACHER'S COLUMN.

Devoted to the Interests of the Provincial Teachers.

In Which We Publish the Entrance, Monthly and Final Examination Papers Used in the Normal School.

This Column is Open for Communications, and Will Contain Articles of Special Interest to Every Teacher—Teachers Seeking for Information on Any School Question Can Obtain the Same by Enquiring Through This Column.

NORMAL SCHOOL.

The Final Examination Papers—Continued From Last Issue.

General Chemistry.

GRAMMAR SCHOOL. Time, 1 hr. 30 min.

1. Explain the difference between elements and compounds. What principles govern the classification of elements? The classification of compounds? Name five elements noticeable for their abundance, and five for their rarity.

2. Compare the combustion of the following substances: Mg, S, H₂, P, Fe. Explain in each case the relation of the combustion to the heat and light produced.

3. How would you proceed to get N from air? H from water? Cl from common salt? As from AsH₃? Ether from alcohol? Iron from Hematite?

4. What is meant in chemistry by the terms: Reduction, Valency, Isomers, Homologous Series, Negative Radicals, Compound Radicals. Give illustrations in each case.

5. What is the relation of ozone to oxygen? How can the relation be shown? How is it accounted for? What is the part played by ozone in nature?

6. Explain why ammonia is formed in gas works. What is ammonium? Give symbols for its chloride, sulphate and nitrate, respectively. If the latter be strongly heated what reaction results?

7. Give symbols for the following substances: Bleaching powder, saleratus, baking soda, white lead, vinegar, epsom salts, fluor spar, plaster of Paris, gunpowder, black lead, soda water.

8. Enumerate, as far as you can, the useful products 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: Rosin, soap, glass, carbolic acid, alum, phosphorus.

Note—Six questions make a full paper.

Plane and Solid Geometry.

GRAMMAR SCHOOL. Time, 1 hr. 30 min.

1. A ladder slides down between a vertical wall and a horizontal plane, what is the locus of its middle point?

2. Show how to construct an angle equal to one-third of a right angle.

3. Two circles are in contact at a point. Lines are drawn from this point to the centers of the circles. In such a way will make the proof an application of the test three mentioned.

4. Name the five regular Polyhedra and state how their solid angles are formed? Why can there not be more than five regular Polyhedra?

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

X. On what general principles should a time table for a grammar school be drawn up? N. B.—Questions III and IV.—V. and VI are alternates.

English Literature.

GRAMMAR SCHOOL AND I. Time, 1 hr.

1. Where did Tennyson get the materials for the composition of his Idylls? What was the object of these poems? Give the date of their publication.

2. In what connection do the following occur? Name the speaker:—
a. "I will not fight my way with gilded arms. All shall be iron."
b. "Tho' men may bicker with the things they love. They would not make them laughable in all eyes. Not while they loved them."
c. "I love that beauty should go beautifully."
d. "The world will not believe a man repents. And this wise world of ours is mainly right."
e. "I have griefs enough: Pray you be gentle, pray you let me be."

3. Explain briefly the meaning of: "Toppling over all antagonism"; "debatng his command of silence given"; "the pilot star of my lone life"; "the vicious quiet"; "angrier appetite"; "take a horse and arms for guerdon."

4. When was "Locksley Hall" originally published? Indicate briefly the drift and purpose of this poem.

5. Quote the passage from "Locksley Hall" beginning, "For I dip into the future," and ending "Federation of the world."

6. Express briefly in your own language the thought contained in the following extracts:—
a. "But the jingling of the guinea helps the bin, that honor feels, and the nations do but murmur, snarling at each other's heels."
b. "Yet I doubt not thro' the ages one increasing purpose runs, and the thoughts of men are widen'd with the process of the suns."
c. "Thro' the shadow of the globe we sweep into the younger day: Better fifty years of Europe than a cycle of Caligay."

7. Discuss briefly the leading qualities of 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.

GRAMMAR SCHOOL AND I. Time, 1 hr.

1. In regard to the support of schools show (a) the basis on which Provincial Grants are made, (b) how the county fund is raised and distributed, (c) how the District assessment is levied.

2. What are the duties and powers of the Board of Education?

3. What are the provisions of the law to establish a school in a District the rate-payers of which refuse to vote sufficient money for the purpose?

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

5. In what respect do General meetings of rate-payers differ from Special meetings?

Animal and Vegetable Physiology.

GRAMMAR SCHOOL. Time, 1 hr 30 min.

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.

2. Explain the nature and use of cartilage, marrow, periosteum, tendons.

3. Explain the nature of muscular tissue. How are muscles classified? Why do blood vessels and nerves accompany muscles?

x straight sides. The distance A E is 9.25 chains and the perpendicular on A E from F=6.4 chains. The distance BE=13.75 chains and the perpendicular on BE from D=7 chains. The distance DE=10 chains and the perpendicular on DE from C=4 chains. Also the perpendicular on BE from A=4.75 chains. Required the area of the field in acres and square poles.

Natural Philosophy and Physics.

I. Time, 1 hr.

Six questions make a full paper.

1. How is the effect of a force in a direction different from its own estimated? Find the effect of a force of 23 lbs. in a direction making with the line of the force an angle = 60 degrees. If the angle becomes 90 degrees what do you obtain for the effect? Define component and resultant forces. Show how to resolve a force into two components at right angles to each other.

2. The resultant of two forces acting at right angles is double the lesser of the components; find the angles it makes with the components.

3. A body is supported on a smooth inclined plane by a force parallel to the plane. Show that the power is to the resistance as the height of the plane is to its length.

4. A uniform bar, 4 ft long weighs 10 lbs, and weights of 50 lbs, and 40 lbs, are appended to its two extremities, where must the fulcrum be placed to produce equilibrium?

5. Find the height to which a body projected vertically with a velocity of 50 feet per second will ascend.

6. Explain the action of the siphon. Would it act in a vacuum? Why?

7. Why is the bore of the tube of a thermometer so small? Why need not the bore of a barometer tube be so small?

8. (a) Explain the statement that electricity only attracts electrified bodies, (b) how do you account for thunder and lightning?

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A DOMESTIC TRAGEDY.

KILLED HIS CHILD AND THEN THREW HIMSELF BEFORE A TRAIN.

ROCHESTER, N.Y., June 24.—Bartholomew J. Doran, a light-weight pugilist of note, who came to this city a week ago accompanied by his wife and a year and a half old boy, suddenly disappeared with his wife yesterday morning and their child last night.

When they were engaged furnished by the child appeared to be in perfect health and was seen by Mrs. Hanser, the boarding house keeper, playing about the street and after lingering about for a few minutes was joined by her husband and they left the house without saying anything as to where they would be back or where they were going. When at eight o'clock they did not return, Mrs. Hanser became alarmed about the child and instituted an investigation. She found the door of the room used by the Dorans locked. After some difficulty she succeeded in opening the door and was horrified to find the dead body of the infant lying on the top of a trunk. In the room there was every evidence that the occupants had indulged in a night of carousal and had made a hasty departure. Cans and beer bottles were strewn around, and the room was otherwise in an untidy condition. The coroner Mr. Tait, assisted by Dr. Herkle, made an autopsy on the child's body and were satisfied that death did not result from natural causes. Several bad bruises were found on the front and back of the child's head.

Doran's decapitated body was found shortly after four o'clock yesterday afternoon by the tracks of the Rome, Watertown and Ogdensburg railroad, one mile east of Windsor Beach. The woman was found walking on the track a little west of where the body of Doran lay, and was placed under arrest. She told the coroner that her husband had killed the child the previous night and threw himself in front of a train yesterday afternoon with the above result.

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