New Series-

AUGUST, 1892.

Vol. XII, No. 3.

OFFICIAL.

The following Regulations supersede those formerly in force respecting the Journal of Education:—

I.—The Journal of Education shall hereafter be published semi-annually, in the months of April and October respectively, and continue to be the medium of Official Notices in connection with diameters of the circles. the Department of Education.

II.—The Journal will be furnished gratuitously, according to given, shew law, to each Inspector, Chairman of Commissioners, and Board of right angles. Trustees, and will be supplied to other parties wishing it at the rate.

5. Planes of ten cents a copy-

III .- Each Secretary of Trustees 13 instructed and required to file and preserve the successive numbers of the Journal for the benefit of his fellow Trustees and the Teacher or Teachers of his section.

7. A number of planes have a common line of intersection, what
and their successors, and to inform his associates in office and the
Teacher of Teachers of its receipt, so soon thereafter as may be point?

EXAMINATION PAPERS, last meeting of the Legislature.

Set for Candidates for Provincial Licenses.

JULY, 1892.

ACADEMIC LICENSE (Grade A.)

ALGEBRA.

Any five questions will be considered a full paper.

Solve the quadratic:

$$\frac{a - \sqrt{2}ax - x^2}{a + \sqrt{2}ax - x^2} = \frac{x}{a - x}$$

2. Solve completely the cubic equation:

$$(x^3 - \frac{x^3}{2}) + (x_2 - \frac{x}{2}) = 56 \cdot x - 28.$$

3. The product of three roots of the biquadratic $x^{i} = 0^{-3/2} = 10^{-3/2}$

only rational and integral roots: find them.

5. In the cubic $x^3 - 2x^2 - ax - 70 = 0$, the sum of the cousing tobacco, and (b), to enable one who has formed the habit to efficients of the odd powers of x is equal to the sum of the other break it off.

PHYSIOLOGY.

6. If $\frac{p^1}{q^2}$, $\frac{p^2}{q^3}$ be three consecutive convergents, show that $\frac{q^1}{q^2} \frac{p^2}{q^3} \frac{p^3}{q^3}$ be three consecutive convergents, show that $(p_3 - p_1) \frac{q_2}{q^2} = (q_3 - q_1) \frac{p_2}{p_2}$ 1. Indicate by a draw, lower limb to each other in each part of the limb, whose denominators shall be 6, 0, 18, and whose sum shall be 23.
2. State the chemical value of the limb to the li

8. It is 3 to 1 that A speaks the truth, 4 to 1 that B does, and 6 to 1 that C does. find the probability that an event took place which A and B assert to liave happened and which O donies.

GEOMETRY.

1. Give Euclid's definition of Proportion.

2. Similar triangles are to one another in the duplicate ratio of their homologous sides.

diameters of the circles.

4. If two diagonals of a quadrilateral inscribed in a circle be given, show that the quadrilateral is greatest when they are at

5. Planes to which the same straight line is perpendicular are parallel to one another.

6. If a solid angle be contained by three plane angles, any two of them must be together greater than the third.

SCHOOL SYSTEM AND SCHOOL MANAGEMENT.

[Any five questions count a full paper.]

1. Summarize the changes made in the Education Laws at the

2. Summarize the Law (a), as regards moral teaching in the School (b), as regards religious teaching.

3. Give an idea of the manner in which you would organize and carry out a system of gymnastics and military drill in a graded school of which you may be assumed to be principal.

4. Give an idea of the manner in which you would set about organizing a museum for high school purposes, stating reasons briefly for the details of your scheme.

5. Discuss Rousseau's theory of education as illustrated by his

"Emile," up to the age of twelve years.

6. State briefly but fully he constitution and powers of the Council of Public Instruction.

TEACHING.

1. Give an idea of the points on which you would lay special

the treat inter of the points on which you would all special stress in the first year's course in Latin, with reasons.

2. What are the points on which you would lay special stress in the teaching of Chemistry in High School, and why?

3. Discuss the reasons, from a psychological point of view, why a person, who has passed through the common schools without

mastering English orthograph, cannot be expected ever to attain accuracy in at "ing.

member of a junior high school class from forming the habit of

[Any seven questions will constitute a full paper.]

1. Indicate by a drawing the general relation of the bones of a lower limb to each other, giving the number and names of those

2. State the chemical constitution of blood.
3. Describe briefly, and in order, the glands and their secretions which assist in the assimilation of food during its course in the alimentary canal.