## OFEICIAI.

The Eollowing Rugulations supersede those formerly in force respecting the Journal of Education:-
1.-The Journal of Edecation shall hereafter be published seeni-annually, in the months of April and Octuber respectively, and shall continue to be the medium of Oficial Notices in connection rith the Department of Education.
II.-The Jounval will be furnished gratuitously, arcording to lano, to each Inspector, Chairman of Commissioners, and Board of Trustees, and voill be supplied to other parties rishing it at the rate of ten cnisis per copy.

1II.-Each Secretury of Trustees is instructed and required to file and preserve the succeative numbers of the Jourxal for the benefit of his fellow Trustees and the Teacher or Teachers of his section, and their successors, and 10 inform his associates in office ard the Teacher or Teachers of its receipt, 80 soon therenfter as may be convenient.

## EXAMINATION PAPERS,

Set for Candidates for Provincial Licenses.

## JULY, 1887.

## ACADEMIC LICENSES (Grade A.)

## ALGEBRA.

1. A baaket has two kinas of change; there must be a pieces of the first to make a crowa, and $b$ pieces of the second to make the same; now a pers.n wishes to have $c$ piaces for a cruirn. How many pieces of each kind must the basker giru him?
2. Find the values of $x$ and $y$ from the Equations $2 y \frac{y y+3}{x}=1$

$$
x^{2}+5 x+y(y-1)=24 .
$$

3. Find corresponding integral values of $x$ and $y$ in the Equation $20 x-9 y=683$.
4. According to natural philisophy a body falling in a vacuum describes in the first second of its fall $16 \frac{1}{2}$ feet, and in each succouding socond 32 ft more than in the second immediately preceding. If a body bas fallen 20 seconds, how many feet has it fallen in the last wocond, and how many in the whole time?
5. Show groemally how to divide an odd integer into two other integers iff with the.ptoduct shall be the grentost possible.
6. Free froin rudicals the Equation

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

7. Give one solution of the Equations

$$
\begin{aligned}
& y^{2}-x^{4}=68 \\
& x^{2}+\sqrt{x}=y
\end{aligned}
$$

## GEOMETRY.

1. If a straight line be bisected and produced to any point, the equare on the whole line thus produced nad the suasire un the part of it produced are fogether double of the sfuare on half the line hisected, and of the syuare on the line made up if the half and the jart produced.
2. Show that the perimeter of an isosceles trinngle is loss than hat of any triaugle of equal area on the same base.
3. Through a given point without a circlo draw a chord such that the difference of the angles in the two segnents, into which it divides the circle, may be equal to a given angle.
4. The rectangle, contrined by the diagonals of a quadrilateral inscribed in a circle, is equal to the sum of thes rectangles contained by its oppusite sides.
5. Produceagiven straight line, so that the given line may the a mean propurtional between the whole hne and the part produced.
6. If a solid angle be containad by three plane anglea, any two of them mast be together greater than the third.
7. Similar pulygons anscribed in circles are to one another as the squares on the dinmeters of the circles.

## SCHOOL SYSTEM AND SCHOOL MANAGEMENT.

1. State the principles which regulate the apportionment of the County Fund to Trustees, aud show in what respect they tend to securo, (1) Schonl privileges in a Section, and (2) a good atlendance.
2. Discuss the nature and extent of the tenchers nuthority over his scholars outside the schuol room.
3. State the physiological reasons rendering necessary careful regulation of the school roous in respect of (1) temperature, (2) cleanliness, (3) ventilation.
4. Discuss broadly the question of "punishment," stating at fully as youn can the principles by which you propose to regulate your own practice
5. Give outlines of the career and system of Pestalozzi.
6. State fully. with rensons, your views as to the proper order of scientific studies in an academic cuarse of stady.

## TEACHING.

1. Discuss "the educational value of memory," and ptate principles which sbould regulate the dovelopment and training of that facults.
2. Explain your method of unfolding to a class of begioners the princyples of declension in Latiu.
3. What is meant by "Aesthetic Culture ?" Explain methods by which it may be prumoted luth directly and indirectly in connection with school work.
4. Describe the teaching of any lesson in English Grammar that has specialls impressed you, either favorably or unfavorably. Discuss with particular reference to effect on pupil's growth (1) in knowledge, (2) in mental power.
[^0]
[^0]:    5. Furnish detailed directions for taacher of Preparatory Department (8th Grade Common School Curse) in toeching tho fundemental principles of composition (without text book).
