

8. Name the States of the American Union; east of the Mississippi, with the capital of each.

9. Give the chief commercial and manufacturing centres of France, Germany, and Great Britain, and state for what each is famous.

10. Draw an outline map of Europe, and locate Nice, Hamburg, Drontheim, Milan, Warsaw, Oporto, Heligoland, Corfu, Malta, Arno, Meuse, Ems, Danube with its tributaries.

ENGLISH COMPOSITION.

Time—One Hour and a Quarter.

Candidates will select one of the following subjects :—

(a) The Genius of Shakespeare.

(b) The Revival of Learning.

(c) "In the elder days of Art,
Builders wrought with greatest care
Each minute and unseen part :
For the gods see everywhere.

"Let us do our work as well,
Both the unseen and the seen ;
Make the house, where gods may dwell,
Beautiful, entire, and clean."

EDUCATION.

Time—Two Hours.

1. Define education? What is the value to a Teacher of a good definition of Education? Criticise in respect to influence on practice :—

"Pædagoggy is the art of making man moral."—*Hegel*.

"Education consists in the ideas and facts gained and properly classified by the learner."

"The object of Education is not the immediate knowledge which it gives, but it is the instrument by which one may learn hereafter."—*Sir. W. V. Harcourt*.

2. State the qualifications of an accomplished teacher.

3. What is necessary that educational experience may be of value?

4. State concisely the fundamental principles of Science-Teaching. — (Physical Science.)

5. "To give problems, and on the pupil failing to solve them, to show him the solu-

tion is utterly useless."—*R. A. Proctor*. Do you accept this statement? If so, what would you do in case of a pupil failing to solve a problem set?

6. 'A, is a boy of seven years of age, quick-witted, eager to gain knowledge in his own way, indifferent to books and heedless of rules and regulations, but of an irritable temperament. B, is a boy of the same age, devoted to play and mere animal enjoyment, indifferent to knowledge of any kind as knowledge, quite contented with his idleness, without any ambition after excellence, sullen when much thwarted, but obedient to regulations because obedience saves trouble. How would you treat these cases? Explain your rules of action by reference to distinct principles of Education."—*J. Payne*.

7. Discuss one of the following :

The use (not the abuse) of text books.
Prizes *versus* rewards.
Much, not many things.

8. Give notes on an introductory lesson on one of the following subjects :—

The Tenses.

Fractions.

The Positive and Negative Affections in Algebra.

A Buttercup. (Botany, Fourth Class.)

The eye. (Human Physiology, Fifth Class.)

HUMAN PHYSIOLOGY AND ZOOLOGY.

Time—Two Hours.

1. Enumerate the principal sources of loss and of gain to the blood.

2. You eat a mouthful of beef (mixed fat and lean) and potato, describe the processes it undergoes until all the nutritive matter is absorbed.

3. What are the effects of respiration? Sketch the respiratory mechanism.

4. Describe briefly the structure and functions of the ear.

1. What are the general characteristics of the vertebrata?

2. Give notes on any dissection you have made, including your preparation of the subject, and mode of conducting the dissection.

Candidates who have not made any