

Students' Department.

Answers to the following questions must be sent in so as to be received by the editor before the twentieth of each month. Competitors must be engaged in the drug business, not being proprietors or having passed examination, and must furnish, with the answers sent, their real names and addresses. It is trusted that all answers sent will be the *bona fide* work of competitors, and that no assistance will be sought except such as is afforded by books.

Answers requiring calculation and involving fractions must be given in decimals, which need not be carried beyond the third place.

The following books are offered this month as prizes:—

FIRST PRIZES.

Parrish's Pharmacy.
Garrod's Materia Medica.
Gray's Manual of Botany.
Fownes' Chemistry.

SECOND PRIZES.

Gray's First Lessons in Botany.
U. S. Pharmacopœia, 1873.
Wittstein's Practical Pharmaceutical Chemistry.
Roscoe's Chemistry.

Successful competitors may select from any of the above works, and, on notifying the Editor, the book selected will be forwarded by post.

QUESTIONS.

1. *Chemistry*.—15 grams of acetic acid are neutralized by 90 c. c. of the volumetric solution of soda; what is the percentage of HC^{a} H_2O_2 present? State the method by which the answer is obtained.
2. *Pharmacy*.—What is the excess of iron in the formula for *Syr. Ferri Iodidi* B. P? What is the object of this excess? What decomposition is liable to take place in the syrup?
3. *Materia Medica*.—Name the species, orders and classes from which are derived the substances of animal origin which are official in the Pharmacopœia.
4. *Botany*.—(1) What is the difference between a root and a rhizome? (2) a corm and a bulb? (3) a corymb and an umbel? (4) a peduncle and a pedicel? (5) a sepal and a petal?
- 5.—*Dispensing*.—Define in as few words as possible a liniment