

49. Proof of structural differences between normal and pathological tissues (cancer); and of tissues at rest and under tension.

50. Fundamental proof that colloidal materials such as cellulose, proteins of all kinds, chitin, etc., after being swollen by suitable agents and subjected to mechanical tension, have changed in perfecting directed orientation of colloidal micelles with improvement in tensile strength.

51. Characterization of synthetic drugs structurally in relation to natural and pharmacologically active products (ephedrine derivatives) and proof of influence of molecular sizes and symmetry.

52. Proof that crystallized insulin is pseudo-crystalline in the sense that no diffraction from planes occurs.

United States Civil-Service Examinations for Industrial Teachers. The United States Civil-Service Commission announces the following named open competitive examinations:

HEAD OF INDUSTRIAL TRAINING DEPARTMENT, \$2900 a year, INSTRUCTOR OF SHOP SUBJECTS, SENIOR HIGH SCHOOL, \$2300 a year, INSTRUCTOR OF SHOP SUBJECTS, JUNIOR HIGH SCHOOL, \$2000 a year.

Applications for the above-named examinations must be on file with the United States Civil-Service Commission, Washington, D. C., not later than March 25, 1931.

The examinations are to fill vacancies in the Indian Field Service of the Department of the Interior.

Competitors will not be required to report for examination at any place, but will be rated on their education, training, and experience, and on a thesis or discussion.

Applicants for head of industrial training department must show at least two years' experience as a wage earner in trade or industrial occupations. In addition, they must show two years of successful experience in personnel management in industry, as vocational teacher, as instructor in an organized apprentice training program, or any combination of such experience.

Applicants for instructor of shop subjects, senior high school, must show that they have had at least two years of successful experience in teaching industrial arts; applicants for instructor of shop subjects, junior high school, must show one year of such experience. In addition, applicants for either position must show that they have completed at least two years' study in the teaching of industrial arts in a suitable institution, and a total of two years' experience as a wage earner in trade or industrial occupations.

Full information may be obtained from the United States Civil-Service Commission, Washington, D. C., or from the Secretary of the United States Civil-Service Board of Examiners at the post-office or customhouse in any city.

Student's Attitude Important to Success. Preparation, study habits, intelligence, and evaluative and persevering attitude—and the greatest of these is the attitude; these, Dr. M. E. Herriott, psychologist in the public schools in Los Angeles, California, calls the five major factors necessary for scholastic success. He discussed them in a recent report to the Western Psychological Association, deploring the fact that so little attention has been given by psychologists and educators to the attitudes of students.—*Science Service*