Examination paper in Applied Mechanics (first class, 5th year):—

I. If half a load be applied suddenly to a beam, how long will it take to break a beam 15 feet long?

II. If twelve lemons cost four cents apiece, what will be the resilience of a beam 15 feet long under a load of 10,000 pounds to square inch?

III. What is the breaking strength of a colt one year old, supported at both ends, if the weight of the rider is gradually applied? (assuming \( \pi = 3 \)).

IV. Integrate between the limits of possibility and probability, the expression \( dH + dC + dP - dF \), where the possibility of \( H \) is small.

V. Deduce by the Ricardian formula for rent the wages of a cheerful laborer, assuming the normal operation of the principle of self-interest.

Those members of the ’85 Civils and Miners who take mechanics, passed an extremely pleasant evening at the house of Prof. Lanza, last Friday. Several members of the Faculty were present, and the social character of the evening furnished another pleasing proof of the friendly feeling between Institute students and their professors. During the evening a generous spread was served, to which all paid their most hearty respects. After this an adjournment was made to the piano, when it was found that this section was evidently not up on harmonic motion.

The fourth reunion of the Class of ’85 was held at Parker’s last Saturday evening. After transacting business, papers were read as follows: On the Chicago Cable Road, by M. L. Greeley; An Explanation of the Synchronous System of Telegraphy, by H. V. Hayes; and, A Ride in a Timber Shoot, by L. O. Kellog. The evening was enlivened by the playing of the class orchestra, consisting of: C. S. Robinson, first violin; H. P. Talbot, second violin; A. I. Plaisted, viola; E. B. Homer, ’cello; and A. L. Merrill, accompanist. By special request, Mr. Bates repeated his toast to the ladies, which was received with the most prolonged applause.

The College World.

Harvard. — Among the reforms contemplated by the trustees, is the relegation of most of the work now performed in the Freshman Class to the preparatory schools. As an actual fact, much of the first year’s work is already done in such preparatory schools as the Boston Latin School. — There is a great interest in boating this year. The Seniors are thought to stand a good chance of winning the class races. In a recent brush on the river, they were able to hold the university crew for some distance.

Columbia. — Just now there is great enthusiasm over athletics at Columbia. The baseball nine has become an actual fact, and promises to be a great success. The University crew is said to be poorer, this year, than usual, if that can be, but the Freshmen are much superior. — The Acta keeps up its reputation for delicate and refined wit. — Columbia is to be represented at the next inter-collegiate lawn-tennis tournament.

Notes. — The College World seems to be entirely destitute of news, just at present, with the exception of items about the crews and base-ball nines, who are in hard training for their summer contests. The difficulties at Hamilton, Princeton, and elsewhere have been amicably settled, and students, in general, have settled down for a month of hard work before the annual examinations. Although this stagnancy of news increases the labors of the exchange editor, still it speaks well for the students, as “no news is good news.” — There are three hundred and thirty colleges and universities in the United States, of which only twenty-four have more than two hundred students, and but seventeen have more than twenty instructors. — One third of the building of the new university of Texas is completed. — Cambridge defeated Oxford at the last race on the Thames. — Dr. Ely, professor in political economy at Johns Hopkins University, and two of his advanced pupils, are soon to begin work on a “History of American Political Economy.”