

29. What change is effected by respiration in the non-nitrogenized elements of our food? Where does this change take place, and how does it affect the temperature of the body?

30. Trace the course of the blood, firstly, through the lesser or pulmonary circulation: secondly, through the greater or systemic circulation.

31. Explain the transformation of food into chyle. Where is conversion of chyle into pure blood supposed to take place?

32. Name the most prominent of those compounds which are found in the liquid excrements of animals.

Total number of marks requisite for complete answers to all the questions, 500. The following is the number obtained by the most successful competitors:

1. W. L. Herriman	410	4. Francis Oakley	- - 324
2. { Finlay McNab, }	349	5. Augusta H. Haley	321
3. { Dorcas Clark }		6. Duncan Sinclair	- - 305
3. Philip Lynch	- - 325		

The Prizes were therefore awarded to the competitors numbered 1 and 2.

### REMARKABLE MECHANICAL TALENT.

There is a French Canadian boy at St. Hyacinthe, who has constructed a working model of a steam Locomotive complete in all its parts, about eighteen inches in length, without any assistance or instruction even in the use of tools. He is only about 14 years of age and has had to make for himself every implement necessary for this work, with the exception of one or two files. Among these implements is a rude species of turning lathe and the tools for making screws. His Models have been the Engines, which he had seen on the St. Lawrence and Atlantic Railway. The little Mechanic has nothing in his personal appearance that would indicate the possession of any talent whatever; and it is possible that his vocation, now so evident, would have remained unknown even to himself, but for the passage of the Railway near his father's house,—so true is it that every fresh improvement stimulates to new thought. We learn that it is the intention of some gentlemen, residing in the neighborhood of St. Hyacinthe, to make up a purse for the purpose of enabling the little fellow to pursue a course of studies, calculated to improve the talent which he has exhibited in so striking a manner.—*Montreal Herald*.

### DISTRIBUTION OF THE INCOME OF THE NEW-YORK STATE LITERATURE FUND.

In addition to the valuable statistics contained on page 43 of this *Journal* relating to the Legislative Appropriations to Colleges in the State of New-York, we add the following detailed account of the distribution of the Income of the Literature Fund of the State by the Regents of the University to the several Academies entitled to receive it:—

At a meeting of the Regents of the University, on the 28th day of February, 1850, the distribution of \$40,000 of the income of the Literature Fund for the last year was made among several Academies entitled to participate therein. A certificate of the distribution has been delivered to the Comptroller, by whose warrant the amount apportioned to each Academy will be paid by the Treasurer of the State, on drafts or orders therefor, drawn on him by the Treasurers of the several Academies; such drafts or orders being accompanied by a proper certificate from the President or Secretary of the Academy under its corporate seal, and that the person signing said drafts is the Treasurer of the Academy duly appointed by the Trustees thereof.

Addison	\$152 61	Auburn	339 10
Albany	455 37	Do Female Seminary	373 02
Albany Female	755 68	Augusta	84 78
Albany do. Seminary	152 61	Aurora	150 18
Albion	363 34	Ball Seminary	60 56
Alfred	620 05	Binghampton	385 13
Amenia Seminary	498 94	Brockport Coll. Ins.	452 94
Ames	133 33	Brookfield	222 34
Amsterdam Female do	159 87	Brooklyn Female	787 79
Argyle	201 05	Cambridge Washington	339 10

Canandaigua	201 05	Mexico	363 33
Canajoharie	133 23	Middlebury	247 06
Canton	133 23	Millville	196 20
Cary Coll. Seminary	176 83	Monroe	87 20
Cayuga	283 39	Montgomery	225 26
Champlain	101 74	Moravia Institute	87 20
Cherry Valley	222 83	Mount Pleasant	101 73
Chester	84 78	Munro	324 57
Claverack	33 94	New-Berlin	251 91
Clinton,	36 34	Newburgh	152 61
Clinton Gram. School	237 38	New-Platz	121 11
Clinton Liberal Ins.	370 60	New-York Free	469 90
Clover-st Seminary	191 36	North Salem	203 47
Cortland	576 44	Norwich	251 91
Cortlandville	249 49	Nunday Literary Ins.	164 72
Coxsackie	58 14	Ogdensburg	109 00
Deaf & Dumb Inst. N.Y.	537 69	Oneida Conference Sem.	634 58
Delaware	210 73	Onondaga	232 54
Delaware Literary Ins.	633 65	Ontario Female	448 10
DeRuyter Institute	278 55	Ovid	130 81
Dutchess County	142 92	Oswego	167 14
East Bloomfield	186 52	Oxford	346 36
Elmira	501 36	Peekskill	111 42
Erasmus Hall	128 39	Phipps Union Seminary	450 52
Fairfield	501 36	Plattsburg	365 75
Falley Seminary	375 44	Pompey	125 95
Farmer's Hall	346 38	Poughkeepsie Female	208 31
Fayetteville	111 42	Pratsville	29 10
Fort Covington	48 45	Red Creek Union	290 65
Franklin (Malone)	297 93	Rensselaer Institute	96 98
Franklin (Prattsburg)	365 75	Rensselaer	92 05
Fredonia	438 41	Rhinebeck	205 89
Friendship	70 25	Riga	220 42
Galway	58 14	Rochester Col. Ins.	283 24
Genesee Wesleyan Sem.	969 14	Rochester Female	104 16
Genesee & Wyoming do	314 83	Rome	249 48
Genesee	213 16	Rutger's Female Ins.	653 96
Genoa	220 42	Sag Harbor Institute	26 67
Gilbertsville Academy &		St. Lawrence	290 66
Collegiate Institute	237 38	Sandlake	113 85
Glen's Falls	375 44	Sanquoit	138 08
Gouverneur Wesleyan		Schenectady Lyceum &	
Seminary	452 95	Academy	518 32
Grammar School of Col-		Schoharie	411 77
umbia College	477 18	Schuylerville	251 91
Grammar School Univer.		Seneca Falls	205 89
City of New York	261 60	Seward Female Sem'y	191 36
Granville	123 53	Sherburne Union	150 19
Greenbush & Schodack	46 03	Spencertown	31 52
Greenville	48 45	Springville	220 42
Groton	234 96	S. S. Seward Institute	121 11
Hamilton	283 39	Starkey Seminary	138 08
Hartwick Seminary	106 58	Stillwater do	135 65
Robert Hall Institute	247 06	Troy	186 52
Hubbardsville	33 94	Troy Female Seminary	540 11
Hudson	237 38	Union Hall	356 07
Ithaca	484 41	Union Literary Society	205 89
Jamestown	273 71	Union Village	181 67
Jefferson Co. Institute	266 44	Utica	96 89
Johnstown	113 84	Utica Female	387 55
Jordon	278 55	Vernon	138 08
Keesville	142 92	Wallkill	174 41
Kinderhook	251 60	Walworth	125 95
Kingboro	121 41	Washington	58 14
Kingston	486 82	Westfield	314 88
Lansingburg	141 92	Whitehall	169 56
LeRoy Female Semin'y	501 36	Whitesboro'	31 52
Liberty Normal Inst.	130 81	Whitestown Seminary	472 30
Little Falls	312 46	Wilson Coll. Institute	319 72
Lowville	184 09	Windsor	84 78
Macedon	247 06	Yates	295 50
Manlius	125 95		
Mayville	135 65	Total	\$40,000 00

By order of the Regents of the University

T. ROMEYN BECK, Secretary.