## The Christian Messenger.

Almanae for January.

First Quarter, Jan. 4th, 11h. 9m. Full Moon, 11th, 2h. 9m. Last Quarter, 18th, 4h. 35m. New Moon, 26th, 9h. 27m.	
MOON.	High Tide
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THE TIDES. The column of the Moon's Southing gives the time of high water at Parrsboro, Cornwallis, Horton, Hantsport, Windsor, Newport, and Truro.

High water at Pictou and Cape Tormentine, 2 hours and 11 minutes LATER than at Halifax. At Annapolis, St. John, N.B., and Portland Maine, 3 hours and 25 minutes LATER, and at St. John's, Newfoundland, 20 minutes EARLIER, than at Halifax. At Charlottetown, 2 hours 56 minutes LATER. At Westport, 2 hours 54 minutes LATER. At Yarmouth, 2 hours 20 minutes

FOR THE LENGTH OF THE DAY, Add 12 hours to the time of the sun's setting, and from the sum subtract the time of rising.

FOR THE LENGTH OF THE NIGHT. - Subtract the time of the sun's setting, from 12 hours and to the remainder add the time of rising next morning.

# BETCHER'S

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St. John, N. B., April 16th, 1874. This is to certify that I was attacked with a very severe cold combined with the Asthma very bad, so that I could not lie down or hardly breathe. One bottle of the cough medicine prepared by J. W. BETCHER, Esq., of Halifax, N. S., relieved me, and five bottles completely cured me so I have not been troubled with the Asthma since, and I believe it to be the best medicine for Coughs, Colds, Asthma, &c., that there is made.

JOHN N. DEARBORN.

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may know who is suffering from these diseases, and oblige,

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#### SCIENCE.

A MARTYR TO SCIENCE. - When, only a few weeks ago, the cholera was raging in the slums of Berlin, a young physician, scarcely past his 30th year, made himself remarked by the boldness as it is nobler to sacrifice one's self to all these things, save men than to destroy them, he resolved to test his discovery upon himself. It was an awful experiment: be educated to the extent of their un-Obermeir knew full well that he staked | derstandings as well as children, and his life against the hope of conquering can be as easily damaged or ruined by the cholera.

Obtaining from one of his patients some of the deadly choleraic germs, he went deliberately to his room, placed a from the different management of men table with pencil and paper at his bedside, lay calmly down upon the bed, tion in the animals. Horses with high opened a vein in his arm, and inserted mettle are more easily educated than the deadly poison. He thought he had those of less or dull spirits, and are discovered how to neutralize it; if so, more susceptible to ill training, and man was master of the pestilence for- consequently may be good or bad, evermore. But he was wrong, and according to the education they receive. the error was fatal. He lived seven Horses with dull spirits are not by hours, and then died; but during those any means proof against bad manageseven dying hours, the young hero ob- ment, for in them may often be found served, with scientific exactness, the the most provoking obstinacy; vicious effects and progress of the disease upon habits of different characters that renhim, and one after another he noted his der them almost entirely worthless. observations down until within the Could the coming generations of horses very half hour when the spirit left the in this country be kept from their days body. These notes are pronounced to of colthood to the age of five years in have the highest value, and will serve the hands of good, careful managers, the commission with new facts of the there would be seen a vast difference first importance; and so the dying lega- in the general character of the noble cy of Otto Obermeir may, after all, animals. achieve. - Appleton's Journal.

AGRICULTURE.

Farm Work for January.

The Canada Farmer has some useful remarks on needful work for this month. The principal work will be looking after the STOCK. The horses are more liable to disease in winter than at other seasons. The close confinement, dry food and frequently ill-ventilated stables cause constitutional derangement and a train of attendant diseases. The ammoniacal exhalations from the urine often cause inflammation of the eyes, sometimes extending to blindness. The trouble may be prevented by keeping the stables clean and by sprinkling plaster on the floors to fix the ammonia. Both the horses and the working cattle should be regularly exercised when not at work, and should be turned out on pleasant days.

The SHEEP which have roots served to them daily will not want water, but but it should be accessible to them. They must be fed regularly, as the irregularity will show itself in the wool. If stretches show themselves, give a little sulphur and salt.

Swine want extra feeding in cold weather, and warm shelter-the warmer the shelter the less food will be consumed in keeping up the animal heat, ing on fat.

from want of water. Clean troughs the disease, and his owner placed half should be provided near at hand, A a dozen onions in the crib with his reguplug should be provided so that the lar food. The horse tackled three of water can be withdrawn at night to the onions immediately, and by the time prevent freezing.

after milking, or chapped teats will be ing quite indignant, and refusing to the result. Fresh lard is the best ap- touch the remaining onions. For full plication if they get so.

If there should come an opportunity, store up some dry soil for use in the stables as an absorbent for the urine, the most valuable part of the manure.

Be careful not to let the stock into the orchard during the winter. Fruit trees will all be benefitted by a liberal mulching.

place. profitable sorts.

If you are not quite sure that your cellars are frostproof, a covering of newspapers over the potatoes will keep

a severe frost from getting to them. If you have kept accounts, you now should read and re-read them and extract from them many lessons they can per for all classes for OLD and for YOUNG and persistency with which he entered | teach you. If you have not kept them, the infected quarter, and the apparent | do not let another year begin before you | recklessness with which he exposed equip yourself with the means of knowhimself to the contagion. It is worth ing exactly how much money you are while that his name should be remem- making or loosing. If you have more bered; it was Otto Obermeir. He had land than you can work well and maanother object besides that of relieving, | ure well, make arrangements for seedand, if possible, curing the poor crea- ing part of it down, and growing more tures whom he visited. He proposed stock. You may perhaps find that you to himself to investigate, in the presence | are giving too little attention to grassof the living pestilence itself, its causes growing. Successive crops of cereals and its developement. At last the will exhaust the most fertile of lands, brave young soul thought he had dis- and it is best to fill up in time beforecovered the clue, and with a heroism poverty makes a change of system comfar above the heroism of the battle-field, pulsory. Account books will tell you

> EDUCATING HORSES .- Horses can bad management. We believe that the great difference found in horses as to vicious habits or reliability comes more than from variance of natural disposi-

lead to the victory which he condemned . If a colt is never allowed to get adhimself to self-destruction in trying to vantage, it will never know that it possesses a power that man cannot control; and if made familiar with strange objects, it will not be skittish and nervous. If a horse is made accustomed from his early days to have objects hit him on the heels, back, and hips, he will pay no attention to the giving out of a harhim at an unexpected moment.

We once saw an aged lady drive a high spirited horse attached to a carriage, down a steep hill, with no holdback straps upon the harness, and she assured us that there was no danger, for ber son accustomed his horses to all kinds of usages and sights that commonly drive the animal into a frenzy of fear and excitement.

A gun can be fired from the back of a horse, an umbrella held over his head, a buffalo robe thrown over 'his neck, a railroad engine pass close by, his heels bumped with sticks, and the animal take it all as a natural condition of things, if only taught by careful management that he will not be injured thereby. There is great need of improvment in the management of this noble animal; less beating wanted and more of education .- In-door and out.

A NEW USE FOR ONIONS .- We see it is stated by a New Hampshire paper that the speediest way to cure the epizootic and make a horse thoroughly and the more there will be toward lay: happy, is to give him onions. In proof whereof the case of a Portsmouth horse All kinds of stock suffer in winter is cited, which had a severe attack of he had swallowed them began to cough Wipe dry the teats of milch cows and sneeze and prance about, appearfive minutes he wept at the nose, and then-he was a cured horse. He has not had a cough, a sneeze, not any symptoms of the epizootic since.

ARTIFICIAL FERTILIZERS .- We must use more artificial fertilizers, or farming cannot pay as it ought to do. As farms become worth more, more work-Scions, for grafting, may be cut at ing capital is required, and the chief any time in the winter or early spring, need of this is to provide good fertilizers. when the wood is not frozen. Cut from The value of fertilizers is now well vigorous trees of known variety. Many understood. They must be applied orchardists cut their scions in the early early and with the seed. For barley, winter before severe frost has occured, oats, clover and grass, apply 150 lbs. of Pack them in moist sand, earth, or saw- superphosphate of lime, and 100 of nidust, in boxes, and put them in the trate of soda, per acre, Sow them cellar or some other frostproof but cool | finely powdered broadcast,-half each way, to get an even spread,-as soon Lay out plans so that healthy, vigor- as the seed is covered. The first rain ous trees of inferior varieties may be will carry them into the soil. Let grafted in spring and converted into those who doubt, experiment upon one

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