## THE GOOD CANADIAN ;

or,

## HOUSEHOLD PHYSICIAN


front view, tipren Part.


FRONT VIEW, Lower Part.


BACK Vielv, Upper Part.


Bach VIEW, Lotyer Plat.


FRONT AND BACK VIEWS OF THE HEART.
The vessels at the upper portion of each engraving represent the jugular veins and carotid arteries of the neck; those that branch beneath them in lateral directions spring from the: shoulders and arm-pit, to supply with blood the upper catren-

1ties. In the front view, $A$ is the aorta, the largest and most important artery.of the body. The same letter, in the back, view represents the same blood-vessel, but descending, to supply the trunk of the body and lower extremities. Both in the front and back view, 3 represents the right aturicle of the heart; $C$ the left auricle; $D$ the right ventricle; and $E$ the left ventricle. The branches from the sides, especially in the fromt view of the heart, represent vessels going to permeate the lungs.

The heart, is the noblest organ of animal life, its substance is of muscular flesh, for the heart is a muscle of varions orders of fibres, by which means it is capable of eontraction and dilata. tion. In the heart are two large cavaties called Ventricles, the right and left; above each of these is an Auricle or little ear ; In the right Auricle opens the Vena Cava, and the Vena Pulmonalis in the left. The Arteria Pulmonalis arises from the right ventricle of the heart, and the Aorta or great artery from the left ventricle. In the dilatation of the right Auricle the blood rushes in from the Vena Cara, which, by its contraction, is thrust into the right ventricle, which, by its contraction, drives it into the Pulmonary Artery, by which it is circulated through the Lungs, and then returned by the Polmonary Vein into the left Auricle, and from thence into the left Ventricle, which, by its contraction, forces it into the trunk of the Aorta, which carries it to all parts of the body; from whence it is returned by the veins to the right Auricle. And thus by an alternate dilatation and contraction (called the Diastole and Systole) of the Auricles and Ventribles of the heart, the circulation of the blood is effected, which is the proper function of the heart.

## BOTANY OR PHY'OLOGY.

Continued from Page 106.
Wormwood.-There are three wormwoods familiar to us The Sea Wormwood hath so many names, as Seriphian, Santonicon, Belgicnm, Narbonese, Xantomicum, Misnense and many more. The seed of this wormwood is that which women usually give their children for worms, yet it is of a weazer
kind than others; the seeds of the common wormwood are far more useful for this purpose, lat the Seriphian wormseed being the weakest may be most fit for weak bodies. The leaves of'Scriphian wormwool made into a decoction and drank, strengthens digestion, corrects acidities and supplies the place of gall, as in some constitutions that is deficient. The Sea or Seriphian Wormwood has many round woody hoary stalks from the root, three or four feet high. The leaves are long uarrow white and hoary, like southernwood, only broader and longer ; in taste rather more salt than bitter, which is owing to its growing near the salt water. At the joints where the leaves are towards the top, it bears little yellow flowers. Common Wormmood is well known, its properties are the same as the Roman Wormwood, the stalks of which are slender and shorter than common wormwood, the leaves and stalks are hoary; blossom, pale yellow, not quite so bitter as the common wormwood and of a sweeter smell; it is a mountain herb. It is hot and dry in its nature, the same heat as our blood and no hotter; it aleanses the blood of choler, provokes urine, hinders surfeits, is good for swellings in the belly, it causes an appetite to meat, it is grod for the yellow jaundice, it provokes terms, it is a remedy both drank and applied for the bitings of small animals, cures many diseases of the throat, it is good for diseases of the cyes and a remedy for all kinds of bites and stings. Mix a litule wormwood with ink and neither rats or mice will touch paper that is written with it; and laid among clothes keeps moths awry. Class VIII, page 41.

Vervali (Comano (Verhema officimalis).-A peremial, two feet high, purple blossom in spikes, calyx in five divisions; corolla funneil shaped, with a tube bent inwards and an unequal border with five divisions, stamens four, fertile bat bladdery, corered, withering, seeds fom, leaves in many divisions. The root is small and long and not of much use. The stem is square. Class XIT, page 4?. It is an excellent herb for the womb, to strengithen it. It is hot, dry und bitter, opeuing obstructions, cleansing and healing. Is good for yellow jaundice, dropsy, gont and defects of the langs; also all inward pains and torments of the belly. The leaves being boiled and drank
kills and expells worms in the belly, and causes a grood color in the face and body; strengthens and corrects diseases of the stomach and lungs, coughs, shortness of breath and wheerings, and is very good for the dropsy and defeets of the reins and bladder, and for the stone and gravel. Heals all wounds, both inward and outward, and stays blesdings, and used with honey: heals ulcers in all parts of the system. The distilled water from the herb, when it is in full strength, dropped into the eyes cleanses them from films, clouds or mists that darken the sight, and wonderfully strengthens the optic nerves. It is a serwicable herb for both inward or ontward use.

THE TWELVE MAIN TERMS GF BOTANY.

$a$, the Calyx; $b$, the Carolla; c, the Petal ; d, the Stamens : e, the Filament ; $f$, the Anthers: $t-i$, the Pistil: $g$, the Ovary ; $k$, the Style ; $i$, the Stigma.

Primose (Primula vulgaris.)-A Peremial, four or six inches high, blossom jellow, capsule with one cell, corolla funnelshaped, having a passage at the opening, stigma round, leaves egg-oblong, toothed, wrinkled, hoary beneath flower, stalks as - long as the leaves. It grows best in clayish soil, it is most probably the origin of all the garden poly anthuses. The seeds may be sown in spring or fall, and the roots of fine sorts may be divided. It answers best in shade and moisture.-class XXII, page 56. The leaves of this herb makes a good healing salve for fresh wounds.

1. On the outside of the Primrose a green sort of cup is seen, in which the colored part stands as an egg in an eggcup or as the acorn in the acorn-cup. This, which is marked by the letter $a$ in the engraving, is the flowercup, but botanists call it by the Greek name Calys.
2. Within this flowercup or calyx, which may be cut off, 10 show what it contains, is seen the colored part of the tlowerthe part, I mean, which is yellow in the primrose, blue in the violet, and red in the rose. This colored part, the blossom, botanists call by the Latin name Corolla.
3. The blossom or corolla may now be cuit off, when it will be seen, in the primrose, to be of one piece, while in the rose an' ${ }^{\prime}$ ther flowers, it is of several pieces or leaves, each of these pieces may be called a flowey leaf, but botanists call it a Petal.
4. Within the thower-leaf or petal, in the primrose, five small bodies may be seen standing round in a circle, with their little tips shapel somewhat like a barley corn butsmall and a slender stall to support these, each of the five swall hodies may be: called a male, hut botanists call it a Stamen.
5. The male part or stamen as we have seen, has two parts the under part and the upper pari. The stalk or under part botanists call the Filament.
6. The upper part oi the male may he called the tip, but botanists call it the Anther.
7. When the tip o: anther of the male is broken or bursts, as it always does of itself as soon as it is ripe, a colored powder is seen, which may be called the tip-dust, hut botanists call it Pollen.
8. When the calyx, the corolla and the stamens are all cut away the centre part of the flower alone will remain on the top of the stem, this part may be called the female, hut botanists call it the pistil.
9. The female or pistil consisis of a base, middle aud top. The base of the pistil is always, more or less, bulged out and from its containing the seed, it may be caller the seed organ, but botanists call it the orary.
10. The midade of the pistil may be called the pillar, but botanists call it the style.
11. The top of the pistil may be called the summit, but botamists call it the stigma.
12. There is only one more term to be mentioned here which applies to a peceuliar sort of leaf, sometimes according to the sort of plant found on the flower stem, often at the base of leaves, and sometimes surrounding fruits, as the calyx does the corolla. This, which botanists call by more than one name, according to its situation, I shall, for ease and convenience, call the seale.

These twelve terms will le lomud useful in reading the botanical description of the various herbs in this Magazine.

## WATER COLORA.

## Contimued from Page 1 in.

Lemon Yenrow.-An extremely pale lively yellow, entirely free from the slightest tinge of orange: it has not much power, and is semi-opaque. In distance its light wash is used with great efiect for cool sunny greens, for which purpose a minute quantity of Emerald Green may be added to it. It is employed for points of catreme high light. It is quite permanent, and washes well if skillfully prepared.

Gallstone.-A deep-toned gorgeous yellow. It aftords richer tints than any other yellow, but cannot be depended ou for permanency, and for this reason is seldom employed.

Naples Yellow.-A pale semi-opaque but clear yellow, sometimes used in architectural works. The Naples Fellow here spoken of is manufactured with a Zine instead of a Ijead base, as is usual, and is consequently permanent.

Burat Siexaid.-A rich transparent brown orange, much used in every department of water color painting. It yields fine olive greens by admixture with Antwrep Blue (or Indigo). and Yellow or Roman Ochre, Raw Siema, or any other transparent yellow; aud tisese tints may also be saddened into fine
olive neutrals by the addition of Sepia. It is inflexibly permanent, and washes and works well.

Mars Onange.-A very clear and beautiful orange, of the Buint Sienna character, but withon, that tendency to brown which distinguishes the latter; it is consequently valuable in its pale wash for bright sumny tints, and is mequaled for clearness of tone. Very permanent.

Brown Ochre.- $\Lambda$ dense, decp-toned, brownish yellow, fine in sandy foregromds. Brown Ochre and Indian Yellow give a deep autnmnal tint of great richness. Permanent.

Carmine.-A very brilliant, deej-toned crimson, possessing great power in its full toushes, and much clearness in its pale washes, although in this latter quality not equalling Madder Lake. It flows and washes extremely well, but is soldom used in landscape painting.

Common Iake.-Similar in its character to the preceeding, but deficient in rome of its richness and brilliancy. This color is generally useful in all departments of the art.

Scarlet Lame.-More scarlet in its hue than the last, but not so transparent.

Purple Lare.-A transparent, deep-toned Lake, useful in sbadows.

Madder Lake, of Rose Mandex:-A very delicate carnation, much cearer in its pale tints than either Crimson Lake or Carmine, but wanting in intensity. It is much used in all classes of water-color painting, on account of its superior permanency.

Verminiox.-An opaque bright scarlet red, higher in its tone than any others; but a want of transparency, and its not flowing well, precludes its locing used so generally as wonld be desirable: it stands well.

Scarlet vemalion.-Has properties the same as above, with the exception of being a little more scarlet in its tint, and washing better.

Orange Vermilion:-Rather more transparent than the others, with a clear but not bright orange tint; it washes better than the other descriptions of Vermillion, and is for landscape parposes more useful.
Liget Red.-A clear and transparent, but not a bright red, with somewhat of a tinge of orange; it is generally useful in landscape; with Cobalt it yields fine grays; with black and brown pink fine warm near tones. Permanent.

Venetian Red.-Is a very servicable colour for general purposes; its tints, though not bright, are clear, and it mixes and works kindly with cobalt or with French bluc, affording fine pearly grays. Heightened by madder lake, it affords a fine glowing red, very servicable in some descriptions of skies; and saddened by black, gives low-tuned reds of good quality for buildings.
Indian Red.-This deep lakey red earth, when skillfully prepared, affords fine clcar tints in the light washes, and useful shadows when mised with indian ink. It is much used for grays when mixed with indigo or with cobalt. Quite permanent.

Purfle Maddee.-An intensely decp, rich and warm purple, affording the greatest depth of shadow, without coldness of tint. The clearness and beauty of its delicate tones render it valualle in every stage of drawing. With indigo and raw sienna, it gives beautiful shadow tints, and way be relied on for permanency.

Madder Brows.-This rich lakey brown is, if prepared with skill, of intense depth and trasparency, affording equally the richest description of shadows and the most delicate pale tints. With cobalt, or with French blue, a set of fine warm or cool grays are compounded, in proportion as the brown or the blue predominates.

Vaxdyee Brown-This very rich trausparent brown is. employed in almost every department of the water colour art. It is clear in its pale tints, and deej and warm in shadows With indigo it gives very clear, sober, neatral sreons for middle distance. Per.nanent.

Serra.-Unless artificially warmed by mixing other colors with it, this pigment is of a pale brown tint. Its pale washes are extremely clear, but its coloring property is so very strong, that, unless used with caution, it is apt to engender heaviness in its shariows. It is perhaps the best washing pigment we have. With gamboge it affords, for landscape, a range of fine neutral greens which are permanent. Indigo and sepia give very cool dark greens, and with Prussian or antwerp blue, low ulive greens.

There are also two other descriptions of sepia; one called warm sepia, the other Roman sepia. 'They are tints compounded by the admixture of red and of a yellow with the natural sepia; the latter however is the only kind required by the landscape painter.

Cologne Earmin-A cool brewn, useful for the shadows of buildings: does not wash so well as sepia, and is preferred for some purposes on that account. Permanent.

Bistre.-A fine brown color that washes well, aud has a clearness about it suited to shadows in architectural subjectsPermanent.

Burar Umima.-A guiet brown color, aftording clear and warm shadows. It is apt to look rather turbid if used in great depth, but it washes and works beautifully, and in buildings it is invaluable.

Raw Umben-A quict yellowish brown, not perfectly transparent.

Indenmee Brows Ink.-Although this camot be classed as a pigment, yet being yery useful in the art, it may be proper to describe its qualities. This ink is a rich brown fluid, and, as its title imports, is indelibly fixed on the paper soon as it is dry; thus allowing the artist to work or wash over it repeatedly, without its being disturbed. If diluted with water to its faintest tint, it still continues to posess these qualities umdiminished. It is generally used with a reed pen, and employed principally in architectural details.

Brown Prit.-This color is almost indispensible in landscape, affording generally the rich foliage tints in foregrounds.

It may be modified by admixture with burnt sienna, gor gamboge, a componnd which, with the addition of a small quantity of indigo, gires a warm green.

Ourve Griben.-(Sometimes called Dewint's green.) A fine deep olive green, of sober ricimess, much used in landscape. Permanent.

Emerald (arerex.-A vivid light, green, immediately attracting the eye to any part of the picture in which it may be used. It has the effect, where properly placed, of toning down at once, by the force of contrast, all the other greens in the picture. In its pure state, it is cuployed generally in draperies of landscape figures, heads of boats, or the like, and generally very'sparingly. Where required however, no mixture will serve as a substitute.

Sar Greex.-A transparent gummy green juice, inspissated and formed into a cake; not strictly permanent; of little nse in landseape painting, as the mixed greens are better.

Green Omide of Caromim.-A decp-wned green, bright, but not vivid, as a landscape sreen; and in the hand of a master, it is occasionally employed with great effict, by admixture with either brown pink, Italian pink, or Iudian yellow, and has then a fine lusirous appearance. Is extremely permanent but does not wash well in flat tints.

IVory Brack.-Is the richest and mosit transparent of the blacks, and has a slight temiency to brown in its pale washes.

Lamp Brack--Is not quite so intense nor so transparent as that made from ivory, but it is less brown in its pale tones; it has a very strong body that covers readily every underlay of color. Lamp, black mixed with French blue or enbalt affords good cloudy grays, which are sometimes used for the shadows of heavy stormy clouds; but it should be used sparingly in a landscape, as it is a dangerously heary color.

Blue Black.-Is a black of a werker body than the other tro blacks, and consequently better suited for general mixed tints, in which it is not so likely to look dense and sooty as the others may do; it also affords a servicable cool shadow tint. Is permanent.

Nretrat, Tint.-A compound shadow color, of a cool neutral, character.
Parne's Gray.-Similar to the neutral tint, buthaving alittle more lilac in its hue. By itself it gives a clear violet shadow. With a small portion of burnt sic. na, it makes a clear neutral tone; and all the mixtures, whether the gray or the burnt sienna predominates, afford serviceable tints.

Chinese Whrre.-A material of great importance to water color art. It is prepared beautifinly white, and possesses the desirable quality of dense body; so much so, that, as the painter works, his effect remains unaltered by the drying of the colorIt works and washes with great freedom, has no paste or clogging qualities like the imperfect whites formerly in use, and its permanency is unquestionable. The'various methods of employing the Chinese White in landscape paintiug will be adverted to hereafter. It will be suficient at present, to observe, that the following colurs blend very satisfactorily with the white for opaque lights, viz, Gamboge, Cadnium Yellow, Vermillion, Light Red, aud Lelluw Ochre.
It will be apparent that the sejold of the foregoing colore are not required for any single work, but that a selection, accordto the painter's intention, must be made from then. For general use the following list will be found serviceable and convenient:-

Gambuge, Burat Sicma, Indian Red, Rose Madder, Brown Madder; French Blue, Fandyke Brown, Olive Green,

Yellow Ochue,
Light Red,
Purple or Crimson Lake,
Purpie Mindder,
Cobalt,
Indigo,
Scpia,
Blue Black.

## PHYSIOLOGY OR NATYRAL PHILOSOPIIS.

Selenograrin has for its subject the deseriptiom of the Moon pertaining to our earth, for thongh there is other Mows
in the planetary system, yet they are not of so ${ }_{2}^{2}$ directimportance to us as this one. (1.) Her body is dark, uneven, spherical and apparently like our earth in matter and form. (2.) That the bright parts are the more emineut parts of the land, as mountains, islands, \&e. (3.) The dark parts are thought to be seas, lakes, valleys, ©c., which reflect no light. (4.) It is said there is an atmosphere of air about her, and if so, then (5.) there is wind, clouds rain, \&c., as here; ( 6. ) and in consequence is inhabited by living beings of some kind. (t.) The diameter of the moon is about 2175 Eaglish miles; her circumference 6529 ; her superficies $14,855,440$ square miies, her solid contents $5,386,333$, no0 solid or cubic miles; yet of late these figures are doubtediand a final conclusion is not accepted fet. (S.) The moon revolves about the earth with a very irregular and elleptic motion, in about 27 days, 7 hours and 33 minutes, at a mean rate, from west. to east (9.) The mean diurnal arch described by the moon is, therefore, $30^{\circ} 10^{\circ}$ of the eeliptic. (10.) By this means she appears to rise and set each day about an hour later than another, (11.) according to the different position of the moon in her orb. With respect to the sum and earth she puts on rarious aspects and phases, as new, first quarter, second quarter, third quarter and full. (12.) And since the moon never appears at the same distanec from the sun of a different tace. It appears she must have a diurnal motion abont her own axis, completed in the same time as her periodical revolution about the earth. (13.) That the lumarians have their days and months of equal length.

Some very grod works of latest scicutific improvements are published, with full details upon phisiology, quite recently, which I cau obtain for any oac desirous of entering into this subject fully.

## MISCEEANEOUS RECIPES.

For Brogentwanen Catrie.-take water agrimony and cut it up with their fnod.

To Strengthey the Lixig.-the water, agrimony, boiledand a half cupful of the decoction drank every morning is one of the greatest strengtheners of the lungs that mature affords.

## Good Canadian-DECEMBER—Household Physician.

The year is now complete. Thanks to friends, and your renewal at once is requested. Strict atteution will be given to the arrangement and contents of next year, with improvements. A very nice Front Design is being prepared for the the front of next year's numbers. Correspondence will be promptly attended to. By subsribing-in advance, Subscribers will save 20 cents in the year, besides allowing mo the opportunity of sending by post, and thereby save time. Subscribe at once, in order to give this good enterprise a good prospect for the coming year. A Merry Christmas and Happy New Year.

Subseription, $\$ 1.00$ per ammum in advance, payable at Post Office, Hamilton, or at the author's residence, Mountain View Cottage, Hamilton. Subscribers for ten and for five are offered inducements. See correspondence page.

No Room for anything on Phrenology this month; also a piece on the Medicine Chest, and other articies is obliged to be left out of this jear.

The Water Color has certainly taken a good space this month, but many young persons are interested in it for winter evenings.

DECEMBER POETRY.
This month your roots, dried herbs and seeds
Fon will find become so useful,
'lo flawor meats, your friends to feed.
When you have got an bousefull.
Putatoes, turnips, carrets, beets, l'arsnips and honseradish Will find much work for busy fect: Your tables to replenish.
'Phyme, sivory and marjoram, Carramay and coriander Will flavor dishes sonice, ARam, You never saw things grander.

> V. B. H.

## CORRESPONDENCE.

No letters can be auswered in the ensuing number which are received later than the third Saturday in the Month. Letters to be addressed to V. B. Harl, Post Office, Hamilton, or messages left with TV. Johns $m, 42$ James Street, up stairs.

A Ofice for the Good Canadian Magazine. Will be opened in Jamuary, Listers Block, 42 James St., up stairs.
W. D. C., Siratford.-I will send ycu any information you require when you cominence working the ground in the Spring,

Answers scnt ly Post Card.
A. B.-Subscriber F., S. and W.
P. S., Woodsteck.-You cannot do better than heep them in your cellar till the frost is gone, then divide the roots, planting them in rich soil.
A. West.-You cannot do better than use my Spinal Plaster, as you are so subject to cold in the loins and kidners. You will ffind them no hindrouce in busivess.
A. Friend.- You should have a flannel belt, made very thick, and $\ddagger$ yard wide, to wear during the cold weather.

Attention is called to my special list of arlicles for winter. Sue on cover.
To Country, Town and Village Booksellers.
Upon application to me by letter with amount enclosed I shall be haipy to supply you with these Magazines at 2j-100 rate. Post paid by me to all parts of Canaids. Price $\$ 1.00$ per anuum.

To Tobacconists, General Store-keepers, \&c.
The famous Lung Restorative known as Botaca, used by those who cannot, through chest and lung complaints, make use of tobacco. A great relief and often proves curative to those who are troubled with $\Delta$ sthma. May be had of me, for sale at $25-100$ rate. Retail price 5 cents and 10 cents a packet.

Adventisements are inserted in the cose covers by special aramgenerat with me.

## An apprentice wanted to learn the Trade and Profession of Medical Botany-

## INDUCEMENTS.

To those who obtain ten subscribers at $\$ 1.00$ I will give one well bound volume of the Good Canadian, of 12 numbers, and one monthly copy for the next year through also, and for five, a copy free for the year.

Send in subscriptions for next year early, in order that it may be estimated whether the same or a larger number is requisite to be printed monthly. Messages by Post Card promptly attended to.

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