force, producing ai intense acid, they, wilj remain quiescent in rhe darkness, and for ull eternity would form no combinatien. Again, this same chlorine decomposes wa-
ter in the sin's rays; but in darkness it has ter in the sen's rays; but in darkness it has no such power are' thas effets of so simple a change in the conditions, it is casy to imaGine how varions must be the differences between thephenomena which occur in the labo-
ratory, and those which the same subtances ratory, and those which the same subtances
nresent under the complex conditions of the nresent un
The chemist employs vessels of glass, in which he isolates' the subtances. le exami nes, kecping them free from the interference
other subtances, because he knows that, unother subtances, because he knows that, un-
less such interference be avoided, his expeless such interference be avoided, his expe-
riment is nullifieu. He knows, for example, riment is nullifieat. He knows, for example,
that the water which, if poured into a redthat the water which, if poured
crucible, flies up into his face as, stean, will crucible, flies up into his lace as, steam, whl
rapidly pass ino ice if a little liquid sulplurous acid happen to present. He knows, in short, that the stronger affinity prevents the action of the weaker affinity; and to be sure of his experiment, he must isolate his substances. 13ut in the Gival laboratory no succ isolation is possible. The organism has no airtight cyliinders. Vital processes, Ho ou in tissues which, so far from isolating tecting it against interference, do inevitably interfere, and are themselves involved in the rery changes undergone by the subtance. Thus, while it is trae that an alkali will
neutralise an acid out of the organism, we must be cautious in applysing such a chemical principle in the administration of drugs, beciuse the alkali stimulates a greatter secretion of the gastric acid; so that over znd above the amonnt neutralised, there, will be a surplus of acid free, owing to the
interference of the tisues in which the prointerference of the
sess takes place.
Besides the complications which occur from the inevitable interférence of the oryanism itself, and from differences resulting from divergencies in the state of bodies, there aro other complications arising from
cause peculiarly vital. Chemistry must ecause peculiarly vital. Chemistry must ever omain incompetent to solve the pro-
biems of life, only from this, that in Biology questions of Form are scarcely less imporquest hhan questions of Composition. Spread out a cell into a layer; and you will find, out a cell inting to be a cell, it has ceased to act as an organ-it has lost all the properties act as an oing. listingish it as a cell. Thus, 'the
which.
green cells of the plant decompose carbouic green cells of the plant decompose carbouic carbon and liberate the oxygen, provided its cells are preserved in their integrity of form. But if hese cells are crushed, or otherwise injured, this vital property ceases, because he cell alone is capable of manisfesting it. Under the influence of yeast, sugar is decomposed into alcohol andicarbonic acid; but if the yeastcells be crushed and disorganised, their action on the suggar is inid to be quite different: instead of converting it into alcolol and caibonic acid, they convert it into lac-
tic acil. We must acknowledge, then, that when certain combinations of carbon; oxygen, hydrogen, nitrogen, and salts, assume The form of a cell, the properties of the
subtances become profoundly modified.
Such considerations need all our atten
in deling with so complex a cuestion as that of Food. Thoy show us, what indeed we had last month occasion to see in detail, solve any of the petence of Chemistry to solve any of the questions of physiology, and atiempts at establshing anything more Than chernical facts in the "Chemistry of Food. It was undoubtedly a great disco-
vory which Mulder made in 1833, that the aibumen of plants was identical, or nearly so, with the albumen of animals, and con-
senuently that when the ox ate grass, and senuently that when the ox ate grass, and the lion ate the o., both derived their rutri-
ment from the same chemical sabstance. A great discovery; bu! we cannot agree with Moleschott in thinking this discovery first settled the basis of a science of Food. It was
a chemical triunph, fruitful in results to a chemical triunpl, fruitful in results. to
Chemistry; but its physiological benaing has been sreatly exaggerated, and has given increased impetys to that chemical investigation of Food, which, as we have said, Eannot, m the nature of things, be other
than misleeding. And althongh, Mulder than misleeding. And althongh, Malder
has shown the inaccuracy of Siebir's notion, has shown the verable ulbuynen is illentical vith the tibrine of tire blooil and vegetable cascine thurine of the caseine of the blood-although he with the caseine of the bood-anithoughical
the idea of a chemical analysis furnishing any true standard of nutritive value; yel he dues not seem to have clearly apprehended what the true method of investigation must
be : and his' criticism of Liebig is mainly be : and
Tgative. chemist there may be little ot no
To the che difference between pliant and flesh as fool; to the physiologist the diflerence is profound : he sees the lion perishing niserably of inanition in presence of abundant herbage, which to the elephant or bufalo turnistics
all that is needful. The or eats tho gruss and the tiger osts the ox, may contain little and the tiger osts the ox, may contan int
that is not wholly derived from the griss ; and the chemist analysing the flesh of both and the chemist analysing the but the quesmay point out their densty: bith the ques
tion of Food is not, what are the chemical constituents of different subtances? but, Constituents of are the substances which will nontish the organism? If the animal will not eat, the organism? If the animal will not eat, or, having eaten, cannot assimilate, a cher-
tain subtance is no food for it, be its chemical composition what it may. We thus see cal composition what it may. that digestibility is an important element in the estimate, can be digested, it cannot' be assimilated, can be digested, it caunot be assimilated, cannot nourish; althourh, perhaps, if assi-
milated the substance might have a ligh vamilated, the substance might have a
lue. A pound of lueef-steal contains an lue. A pound of beet-steak-contins sun enormons superiority of tissue-mand of cabtance over that contained in a pound or is the bage; yet to the rabbit the , cabbage is the
sunerior food, while to the dog the cabbage superior food, while to the dos
is no. food at all-Blactavood.

## EUROPEAN SOLDIERS IN INDIA.

A select Committee, of which Mr. Ewart is the chairman, has heen sitting in the Honse of Commons for the past fortnight in order to receive evidence upon the subject of the best method of colonizing India so as to develope the resouroes of the soil and whine
increasing the agricultural wealth of the country, consolidate is possession and government by the English. The evidence has not been made public yet, but from some oocasional summaries that have appeared, and from facts that have oozed out, we
gather that the importance of assembling gather that the importance of assembling
and settling European Soldiers in the Hilts and settling European Soldiers in the Hilts has been much dwelt upon. It appears to Officers who have been consinlted that the climate of the Hills is exceedingly well adapted to the constitutions of. Linglishmen and their children, at an elevation of 2,000 or 3,000 feet above the level of the plains, and that they might work for several hours in the day in the open air without detriment to their health. One Officer suggests that in the event of its being decided to keep a alarge Luropean force continvally in India, it would be very desirable to extend the per-centage of married Soldiers in each Regiment, condi-
tionally that the offespring of such marriages tionally that the offespring of such marringes
should be sent at four years of age to one of slould be sent at four years of age to one ha the educational asylums in the Hills, that they inight attan a healthinu maturity, and sound moral instruction. the plains. The mortality among Luropen children is notoriously great after they have attained their sixth year. If they survive, it is as poor sickly, attenuated objects. The hardship to the European parents in parting with their offspring could not be greater than that to which persons of the higher class are subjected who are obliged to send their little ones to England at a very early age. It'is
argued that, by the process suggested, a argued that, by the process sugrested, a
large European community would be crealarge European community would be craa
ted out of which a Hill Militia could be formed, or the boys, on attaining a proper age, miglat be placed on the various railways, a-
gricultural and other companies, or emplogricultural and other companies, or emplo-
yell by the Government, as oversers, supeyed by the Governnent, as oversecrs, supefintendents, \&., a premium being demanded
fiom their private employers 10 meet, in some mensure, the expenses of their cilucation and maintenance. Four hundrcd chil Asylum, and by the last accounts there are Asylum, and by the last accounts calcutta mine hundred at Dumudre of tlie extent to From this we may judge opulated by Luropeans, without taking into consideration the independent setters, and the Military Pensioners.
As it would not be possible to keep all the European Troops in the Ilills, it is very properly suggested that every Regiment should
be moved there in its turn for as long a period as may be compatible with the exigcncies
of the Service, the rest being of the Service, the rest boing kept at stations
connected with the Hills by railways. In deed, the extension of the railway system nesses but ore the is considered by the wit Colonision he commitee a sine qua, non barktion of Tulish capial in Ioditheembe carried out gish captal hoda, canno be cay on the soiless hose who lay out the that the produce ill be cis 1 datity and he plity to il be carried whe facily rouds ard $x$ to of coast.. The existing
 hed, agriculture and commerce must flourish hed, agriculture and commerce must fourish towns rise up on the line of ran, and.thitary operations be wonderulty

## GAY DECEIVERS.

The departure of a Regiment from one of our colonial possessions to another leads us to reflect upon the effects of a social evil, which seems to have grown up under the every eyes of the authorities, both in church and state. unchecked. because perhaps unheeded. Every one has heard and smiled at the old saying, said of our tars, about a wife in every port! But every one knew what that was worth, and what it meant. The evil now referred to, is a practice which some men indulge in, of "marrying" at every Foreign station where they have the opportunity; purposely, and of malice aforethought intending to abandon the "wif:", upon his Regiment being ordered away to another part of the worlil, again "to love and to ricte away !", This arises from the desire on the of the fair portion of the inhabitants of all Garrison towns to ally themselves with the English Soldiers, in preference to making a match with their own country men, letting alone the singular and almost irressistible attraction found by the softer sex in the red coat. But ehielly, in the facility wihh which a certain sort of marriages are perforpersuad the colonies. Che soln to tie the Enot, wi the Mintary Chap Officer ; but the sanction the purpose; he does not wish to be tied, he has no intention of being fixed, for better for worse; and she is persuaned, on the grounds that the Colonel is very ill natured and won't give him leave, to accompany him to some dissenting minister, who goes through the ceremony, no doubt to the satisfaction of his own concience, but with na more legal authority, in some instances, nor with more binding force, then if any other layman had spliced then. The route arrives, aud with it the hour of parting-the gay deceiver ploughs the main oin fresh matrimonial thoughts intent, while the poor girl finds that she is not only abaudoned, but that she is not his wife! (U.S. Gazetle.)

## THE PROPERTY QUALIFICATION OF MEMBERS OF PARLIAMENT.

Finding fanlt is' not so pleasant as some people imagine, and it really gives us pleasure to have occasion to pranse any saying ters. The opportunity is not frequent, and ers. The opportunity is not frequent, Mal pole has donc oxcellently well in supporting Mr Locke Kings motion for the abolition of the property qualification of members of Parliament, and assigning the best reasons ait he treated with no more, respect than it deserves the preindepondence, and he condemned it both as abortive of is protessed olject and as a sham.'. How will this be relished by the stanch Tories like Mr Bentinck, who apprestanch Torias like Mr Bentiock, whappred if the qualification be abolished beggars will find theit way into the House, and be too occupied with their own wants to attend to the business of the nation? There is, however, no very alarming liking lor is, however, no very alarming thing in the country; thourh error is sometımes committed of choosing men much worse than simply poor, thint is to say deeply in debt-men realizing hat conit the desires of the rich and the means of the poor-Exaniner.

The Royals,aud 31st Regiment at Gibraltar have received their orders, the former direc to Hong Kong, the aatter tor the Cape, and the 6 h ami 7 th , to proceed on their voynge.

INDIA,
Despatches received from Bombay state that Sir Edward Lugard relieved Azimghur on the 15 th, losing only one officer and five men Killed of the 10 th Foot
General Grant had marched from Lucknow on Fyzabad-

The Commander-in-Chief, had sent his stafl to Cawpore on the 12th, and was to march to Futtehghur

Brigadier Seaton had defeated the rebels near that station; they were totally routed, lost two guns, pinc: all their ammunion Ourr loss was slight ; they enemy had some 300 killed and woundet
Sir Hugh Rose, when last heard of, was at Saegur in the Gwalior country
The Kotah fugitives are endeavouring to make for Calpee. The Rajah of Kotah had been tried for cmplication in Major Burton's murder, and, it is believed, had been acquitted.
A small Bombay force has defented a body of rebels in the Maltpoora Mountain
otherwise all is quiet in the Presidency.

## MONTENEGRO.

The Moniteur of the 18th contains the fol10 wing ; The much-to-be-regretted fighting which has been the consequence of the entry of the Turkish troops into the territory of Grahovo has instigated the goverments of
the Dmperor and of those Powers who are the Dmperor and of those Powers who are acting in cencert
steps in the matter
steps in the matter. Suttan has now listened to their advice, and on the 14th instt, transmitted to his Majesty's Commissioner, and to the oficormal command of the Turkish fo
order to suspend hostilities.
order to suspend hastilities.
"There $i$ is, therefore, evry reason to hope that, thanks to the common eflorts of the Powers, and to the disposition manifestel by thie Ottoman government, this affair will, sh
ner."

- American Fleet.-The Unitel States vessels of war uow stationed in the Gulf of Mexico, and under sailing orders for that station, are as follows :
Name of vessel.
Name of vessel.
Steamer Colorado
Steamer Water Witc
Steamer Arctic
Frigate' Savannah
Frigate Savannah Brig Dolphin
Brig Dolphin. .
Stoop of war plymouth
Sloop of war IPlymouth
Sloop of war Preble...
Total. .
Guns.

| Guns. |
| :---: |
| 5 |
| 40 |
| $\stackrel{2}{2}$ |
| $\cdots \quad \stackrel{2}{50}$ |
| 50 |
| - 22 |
| 4 <br> 2 |
| 5 |
| 16 |

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Canal Basin, and $\overline{19 \text { St. Francois Sivio }}$ REFERENCES.
Honbls. J. Ferrier and L. Renaud ; William Molson, Willian Workman, David Torrance, Johnson Thompson, and Joseph Levey Esqrs. Messis. Chamberlin \& Thompeo Murla
ther.

## Montreal, Feb. 1S, 185S,

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Montreal, May 7, 1S5S.

