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ESSAY III.

ONTHE

NATURE AND PRINCIPLES

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PUBLIC CREDIT;

CONTAINING

A PLAN for putting the Public Debts into a regular Course of Redemption:

TOGETHER WITH

The General Variations necessary to be made, in order to render the same applicable, Practically, to the several and respective Circumstances, and Conveniencies of the different Classes and Denominations of the Public Creditors.

LONDON:

Printed for B. WHITE and SON, at HORACE's-HEAD, FLEET-STREET.

M, DCC, LXXXVI.

PEEFACE.

IN the following sheets the reader is prefented with my Third Essay on the subject of Public Credit.

The Indulgence that the Public have been pleased to grant, with respect to the style and language of the former Essays, demands my thanks. When I requested that indulgence, I entertained a hope that the Reader would find a satisfaction adequate in some degree to the labour that might be required in the perusal. It gives me much pleasure to find that my hope has been in a considerable measure realized; and, I cannot, now, but entertain an equal hope, that, by a like indulgence, the following Tract will be found to afford a satisfaction fully adequate to the labour that the perusal may require.

London, Jan. 15, 1786.

S. GALE.

1 2

CONTENTS.

INTRODUCTION.

ONTAINING a brief Account of the First, Second, and Third Essays - - - - Page i

SECTION I.

Observations in support of certain Parts of the First and Second Essays; being in Answer to the Remarks of the Monthly Reviewers, contained in their Publications for November 1784, and December 1785

SECTION II.

General Observations respecting the Nature and Present State of the Public Debts of Great Britain; together with the General Out-line, or Elemental Principle, of a Plan, for putting them into a regular Course of Redemption

SECTION III.

Of the General Variations necessary to be made, in order to render the afore-mentioned Elemental Principle applicable, practically, to the several and respective Circumstances and Conveniencies of the different Classes and Denominations of the Public Creditors - 29

Advertisement.

ENTLEMEN, who study the whole of the THREE ESSAYS, will derive much advantage from the perusal of the following Introduction; particularly, if they re-peruse, at the beginning of each Section of each of the Essays. as much of the faid Introduction as shall appertain to fuch Section.

E R R A T A.

The Reader is requested to correct, with his pen, the following Errors of the Press, before he proceeds to the perusal.

Introduction, page xii. line 2d, for principle, read principal. P. 1. 1. 11 fome of the copies for 'at one' read

- 18. After the word 'case' compleat the parenthesis)
 - 9. After the word 'flowing' put (;') instead of (,)
 11. After the word 'perpetual' put (,) instead
- of (;)

 15. 12.13. For subtuting read substituting.

 16. 4. After the word 'flowing' put (;) instead of (,)

 5. For there of read thereof.
 - After the word 'perpetual' put (1) instead
- 9. In some of the copies, for £60 read £66. 2d of the Note; in some of the copies, for 5 per Cent. Stock read 3 per Cent. Stock,
- 28. For fave read ferve.

ERRATA CONTINUED.

Introduction, page v. line 27, from the word "Intention" put the under-written note".

P. xii. 1. 2, and xv. 1. 17, for postcript read postscript.

2. 6. of the note, after 92 put (.) instead of (;) and put
For instead of for.

Add the under-written to the note; 17. 3. The R should be Italic: but the old English prevents all possibility of mistaking.

* It is not improbable but their misconception of my intention here, might have been occasioned by the manner in which the head or caption of this third fection (page 23 of the First Effay) is expressed. It is therefore requested that the reader will change the said head or caption into the following words, viz.

SECTION III.

co Of the damages or burthens fustained by the members of a se state in supporting the expences of a war :- The conveniencies attendant on incurring a Public Debt :- And, the Savings that

would be produced, supposing the monies were to be raised by a simple borrowing, at the actual market rate of interest for the se time being.

This observation will, I would willingly hope, contribute to render my meaning clear, in any fimilar instances that may

† In their publication for January, 1786, they acknowledge this mistake; but this tract having been previously printed off, it was too late to make any alterations. No doubt is entertained but they will hereafter acknowledge their mistake in the other point of dispute respecting the comparative value of a 5 per cent. Stock at the time of the loan of 1781. If they should not, further reasons shall still be given, the result of which will be the fame as the afore-mentioned refults. The point now in dispute is not, however, of any other consequence, than merely to establish the accuracy of that particular branch of the investigation the final termination of which is, that fuch stocks are entirely unfit for public use. If we agree in this terminating point, it feems hardly worth while to fquabble about the roads by which we were respectively brought thither.

INTRODUCTION.

Containing a brief Account of the First, Second, and Third Essays.

IN my two former Essays I endeavoured to investigate, and ascertain, the elemental principles of this important and interesting subject. I ought, in the first Essay, to have laid down, by way of introduction, a general account of the method, or arrangement, which I intended to purfue with respect to the investigation; but that being the first Tract I ever took the liberty of laying before the Public, the necessity of such an introduction did not occur to me. I cannot but be exceedingly forry at the circumstance of such an omission; because, my Readers, in general, have been put to an additional degree of labour on that account; and some few of them have likewise considered particular parts of the First and Second Essays, in a different light from that which I intended. To prevent this, in future, I must here beg leave to observe, that, the Elemental Principles only were fought in the former Essays; and that, the Elemental Principles, so sought, and at length, with much labour, ascertained, proved to be simply, these two, - TO WIT,

First.—That, in order to avoid the maladies, and to attain the benefits, with which a Public Debt may be attended, it is effentially necessary that the value of the public stocks should be supported from de-

4 preciation;

[ii]

preciation; and that, in order thereunto, it is effentially necessary that an extra proportion of revenue should be appropriated to that channel of circulation (in addition to the interest) during the time of the advancement of new Loans, equal to the premiums necessarily required for the advancement of those Loans.—This is the result of the First Essay.

Secondly.—That, in order to produce the greatest possible advantage and security, both to the Public and to the Creditors, the Public Debt ought to consist of redeemable annuity stocks, bearing a rate of interest as high as (or higher than) the ordinary rate of the market; subject to a limited tender for the periodical redemption of the capital, equal to the annuity or interest therefrom periodically slowing.—This is the result of the Second Essay.

These are the two GRAND ELEMENTAL PRIN-CIPLES of Public Credit; the ascertainment of which was the subject of that laborious investigation contained in the First and Second Essays. It must therefore be observed, that all the intermediate principles, or positions, that occur in the course of the work, must be considered only as steps which at length lead to, and finally terminate in, these Elemental Principles. Every one of the examples, likewise, that are made use of, for the elucidation of the intermediate principles or positions, must be considered folely for the elucidation of those particular positions to which they immediately appertain; and not as having any the remotest degree of connection with Systems intended to be recommended for actual practice.

ſ iii

The fystem of practice, to be adopted by any nation, ought to be such as shall, in its nature, comprehend both of the above-mentioned Elemental Principles, compounded; but the manner of compounding them, so as to be the most applicable to the state of the Finances of any particular nation, must necessarily depend on the state of those Finances for the time being. In the Postscript, or Appendix, to the second Essay (which was written in December, 1783) I gave a general sketch of the out-line of a plan whereby the above-mentioned Elemental Principles might be applied to the then state of the Public Debts and Finances of Great-Britain.

But it may not be amiss to be a little more particular with respect to the contents of the First and Second Essays, in order to enable the reader to peruse them with a less degree of labour and difficulty, and with a greater degree of pleasure and satisfaction.

THE FIRST Essay is divided into two parts; to wit, a body of investigation: and a Postscript, or Appendix, containing detached matter.

The former part is subdivided into nine sections, of which I shall here say a word or two in their order.

In the First Section, are laid down the opposite opinions that have been entertained by different people, respecting the advantages and disadvantages of a Public Debt. These opposite opinions are discussed and examined; and on examination, they are both sound to be exceptionable and inconclusive.—This induced me (as I mentioned in the conclusion of this first Section) to pursue a method of investigation that should be totally independent of each of these opinions.

THE SECOND SECTION contains the definitions of the particular kinds of Public Debts intended to be investigated: The data or postulata intended to be made use of in the investigation: And a brief recital of the positions (or rather, of part of the positions) which, in the course of the work, are found to result from those data. As the truth of the whole investigation would necessarily depend on the verity of the data, it was of course, indispensibly necessary, that the data so to be taken, should be exceedingly simple, and self-evidently true.—
They are five in number, and, in substance, briefly as follows, viz.

First, That, a time of war be always followed by a time of peace; and that a time of peace be always followed by a time of war.

Secondly, That, the public expences of a nation be greater in times of war than in times of peace.

Thirdly, That, for the purposes of conveniency in making payments and exchanges, there be one commodity, to wit, Money, that shall be considered as a general medium; and that the value of any other commodity be denominated according to the quantity of money that may be obtained therefor, as an equivalent.

Fourthly, That, the comparative value of commodities for the time being be governed by the demand, and the ease or difficulty with which such demand may be supplied.

Fifth y, That, money be productive of a rent or interest; and that, on account of the extraordinary demand for money in times of war, the rate of interest be then higher, than it would be, if such extraordinary demand did not exist.

[v]

There cannot, it is imagined, be any the least doubt with respect to the verity of these data; and from these, the investigation proceeds, step by step as it were, until we at length arrive at the Elemental Principles before mentioned.

THE THIRD SECTION treats of the damages attendant on the expences of war; and shews, that, if money be raised for the public service in time of war, by borrowing on annuity stocks at par, redeemable at the pleasure of Government, the variation in the rate of Interest mentioned in the 5th Postulatum, will be productive of a saving to the Public. This, however, must be considered only as a step in the investigation. It must not be absolutely taken for granted that money can actually be so raised, particularly after a different kind of practice shall have prevailed: nor, indeed, were it even admitted that money could be so actually raised, it must not, even then, be taken for granted, that such would be the most proper method for practice. The Monthly Reviewers, in their publication for November, 1784, seem to have confidered the examples contained in this third Section, as if those examples had been intended to elucidate a system recommended for actual practice; but this was quite foreign from my intention.—Those examples are given only to elucidate this particular position, or step of the investigation, to wit, That if money be so actually railed, a public faving will be the consequence. But whether, in actual practice, money could be so raised, especially after a different system of practice has prevailed; or, even if it could, whether it would be the most proper system for practice, or not; are questions that require much further consideration.

[vi]

THE FOURTH SECTION points out the losses attendant on the raising of money for the public service, by borrowing on stocks below par; or, on long temporary annuities.—The losses pointed out in this fourth Section, and the savings pointed out in the above-mentioned third Section, naturally introduce a very important question,—How far these losses may, in actual practice, be avoidable? For, without such avoidance, it must be evident that the savings mentioned in the third Section could not, in actual practice, be obtainable.

THE FIFTH SECTION contains an examination of the objections that appear, with respect to the causes from whence the before-mentioned losses may originate, and with respect to the practicability or impracticability of actually avoiding them. And the refult of this examination is, that those losses are, in their nature, avoidable; but are so connected and interwoven with the fluctuations of the rate of Interest, and the consequent fluctuations of the values of annuity stocks, that the means to be used for the actual or practical avoidance of them must depend on the natural laws and principles (whatever those laws and principles may be) which govern the rate of Interest; the comparative value of money confidered as a circulating medium; and, the consequent fluctuations, of the values of annuity stocks. The great object, therefore, with respect to the practical part of the business (independent of which, all theory would be of but little real consequence) must necessarily depend on those laws and principles, whatever they may be found

vii

to be; and the investigation of them takes up

the 6th, 7th, and 8th Sections.

THE SIXTH SECTION treats of the nature of the rate of Interest, and the general principles by which the comparative value of money, and the fluctuations in the value of annuity stocks, are governed: with a short digression concerning the effects of taxes.—In this Section it is shewn that the rate of Interest for money (with which the fluctuations in the value of annuities are inseparably connected) depends on the force of its circulation into the hands of the lenders:—And, that taxes, if properly laid, and applied to the rendering of the Interest on money cheaper, are capable of producing a benefit to the state at large, instead of being burthensome.

The Seventh Section pursues the subject further, and ascertains the depreciations that would naturally take place in the value of the stocks, in consequence of new loans, according to the proportions that shall be kept between the loans and the revenue thereto appropriated*. In this Section it is shewn, that, (barring and excepting the effects that may be produced by the locking up of money on speculation; and barring and excepting also, such effects as might be produced by invasions, insurrections, or such other great calamities as might obstruct the regular collection and appropriation of the Revenue; circumstances which must naturally supercede all

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^{*} The Reader will please to correct with his pen, the following error, which, in the last examination from the press, escaped notice; viz. page 136, line 16, for 'in the same simple proportion', read 'in nearly the same simple proportion'.

The Eighth Section contains a simple enquiry into the principles which govern the comparative value of money, considered as a circulating medium.—It shews that the comparative value of money is not, in an inverse proportion, as the quantity; but, as the product, of the multiplication of the quantity by the force of the circulation; by which product it is, that the demands for money are supplied.—The result of this enquiry coincides with, and thereby supports, the doctrines contained in the 7th Section.

THE NINTH SECTION contains enquiries respecting the ability, or inability, of nations, to raise the revenue required for supporting the value of the flocks; and the consequences that must be attendant on their depreciation. And it is shewn, that '(barring and excepting invalions, infurrections, and such like great calamities, that may obstruct the regular collection and appropriation of the revenue, and thereby render all computative investigations nugatory), the revenue that will be required for the payment of the bare Interest of the loans, in consequence of a depreciation in the value of the stocks, during a long war (as seven or eight years), will be greater than the revenue that would be required for the counteracting and preventing of that depreciation, and for the payment of the Interest of the self same loans; so that nations that are able to raise a sufficient revenue for the payment of the interest of

[ix]

the loans required for the support of a long war, must be very able to raise the revenue that would be required to support the value of the public stocks from depreciation.—It is likewise shewn, in this ninth Section, that a depreciation in the value of the stocks must necessarily terminate in a public bankruptcy, unless proper measures shall be taken to prevent it:—And the Section concludes with the promise of a second Essay, containing an investigation of further principles, whereby this directul calamity may be prevented; and whereby the Public Credit of any nation may be restored to its pristine state.

These nine Sections therefore, put together, form the first of the Elemental Principles mentioned in the first and second pages of this Introduction: to wit.

That, in order to avoid the maladies, and to attain the benefits, with which a Public Debt may be attended, it is effentially necessary that the value of the public stocks should be supported from depreciation; and that, in order thereunto, it is essentially necessary, that an extra proportion of revenue should be appropriated to that channel of circulation (in addition to the Interest) during the time of the advancement of new loans, equal to the premiums necessarily required for the advancement of those loans.

The Postscript, or Appendix to the first Essay, contains detached matter, which has a connection with the subject, but does not immediately appertain to the investigation.—It is divided into three Sections.

The

The first Section contains some brief observations, respecting the primary principles on which the art of levying taxes must depend, in order that the raising of any given quantity shall be attended with as little burthen or inconveniency as may be possible. Together likewise with some brief observations respecting the principles of Paper Money; confidered as an auxiliary medium of circulation: an auxiliary that was heretofore of very effential service in some of the American Provinces.—These observations arose from what was contained in the 6th, 7th, and 8th of the before-mentioned Sections, with respect to the nature and effects of the circulation of money. But these subjects are not pursued further, than just to form the primary bases, or foundations, as it were, whereon regular investigations of those fubjects may be built, by Gentlemen that may choose to undertake them.—For my own part, I have found so much labour in investigating the principles of Public Credit, (simple as those principles are, after they become ascertained) that I shall leave further investigations to Gentlemen of more easy circumstances, and of greater mental abilities.

The second Section of the Postscript, contains fome brief remarks respecting the actual state of the Public Credit, and the current prices of the public stocks, from time to time, in Great Britain: These are compared with the general principles deduced in the afore-mentioned Sections, in order to ascertain how far those general principles might agree or difagree with the state of things, as produced in actual practice. And, when it is considered that fundry of the lesser causes which affect the value of the stocks, are

in their very nature, entirely incapable of being reduced within any regular system of computative investigation; such, for instance, as temporary demands from foreign countries: temporary influxes and effluxes of wealth: -temporary fortunes and misfortunes in war, and in commerce: together likewife with the temporary speculations that are naturally attendant on every of these confiderations: When, I fay, it is confidered, that every of these circumstances, with many others of a like nature, have a temporary effect on the value of the stocks; and, that none of them are capable of a computative investigation; the agreement that is found between the actual prices of the stocks, and their computative values, as deduced from the general principles. before investigated, is so much greater than could have been imagined, that no kind of doubt can reasonably be entertained with respect to the truth of those general principles.—The Monthly Reviewers, in their publication for November 1784, undertook to point out an error in this Section. respecting what would have been the comparative value of a 5 per cent. stock, at the time of the loan of 1781; but, on examination, the error happens to be in the Reviewers.—This point is re-discussed in the first Section of the third Effay, and will therefore be noticed, in turn, when we come to speak of the third Effay.

The third and last section of the Postscript, or Appendix to the first Essay, contains some brief remarks respecting the state of the Paper-Credit of the American Provinces (now United States), at different times; and the agreement thereof, with the observations on the principles of Paper-

Money, &c. contained in the first Section of this Postcript. The principle use of this Section is similar to that of the last; to wit, to ascertain how far the principles that had been theoretically deduced, would, or would not, hold true in actual practice; by comparing them with the effects that had been, in practice, actually produced. And it is hoped that the agreement which is thereby found, will be satisfactory to every attentive reader.

THE SECOND Essay takes up the subject of Public Credit where the ninth Section of the first Essay leaves it.—This Essay is also divided into two parts; to wit, a body of investigation; and a Postcript or Appendix, containing detached matter:—The former part is subdivided into three Sections; and the latter part into two Sections.

THE FIRST SECTION of the second Essay treats of the nature and progressional power of any Sinking Fund that shall be appropriated to the redemption of a public Debt.—It shews the necessity of securing the progressional power of the Sinking Fund from decreasing; and the equal necessity of securing the Annuity or Interest appertaining to the Creditors from being reduced.

THE SECOND SECTION contains an investigation, ascertaining the necessary principles of an annuity stock, that shall naturally produce an equal security to the progressional power of the Sinking Fund, and to the Annuity or Interest appertaining to the Creditor. The result is, that the stock ought to bear a rate of Interest (as high as, or) higher than the ordinary rate of the market, and be subject to a limited tender for the periodical

xiii]

dical redemption of the Capital, equal to the Annuity or Interest.

THE THIRD SECTION treats of the superior advantages attendant on an annuity stock of the abovementioned principles, in preserence to any other kind of annuities; and the mutual benefits slowing therefrom, as well to the Creditors as to the Public; whereby the Public Credit will naturally become restored to its pristine state.

The fecond Essay, therefore, gives us the fecond of the Elemental Principles (as mentioned above in the second page of this Introduction,) to wit,

That, in order to produce the greatest possible advantage and security, both to the Public and to the Creditors; the Public Debt ought to consist of redeemable annuity stocks, bearing a rate of Interest (as high as, or) higher than the ordinary rate of the market, subject to a limited tender for the periodical redemption of the Capital, equal to the Annuity or Interest therefrom periodically slowing.

The Monthly Reviewers, in their publication for December 1785, undertake to point out an Error in the Demonstration of the Theorem which forms the above principle; but, on examination, the Error is found to be in the Reviewers them-felves.—This will be shewn in the first Section of the third Essay, which I shall mention again in its turn.

THE FIRST SECTION of the POSTSCRIPT OF APPENDIX to the fecond Essay, (which was written in *December* 1783) contains some general observations on the then state of the Public Debts and Finances of Great Britain; together with the general b 2

| xiv]

out-line of a Plan for reducing them to the above mentioned principles; but the subject is not, there, pursued any farther than just to lay down fuch out-line: - The remainder was referved for a third Essay; in which third Essay, a little remainder is still reserved; as will by and by be mentioned in its turn.—The out-line of the plan, as laid down in this Section, relates principally to a conversion of the debt into a fix per cent. stock, subject to the aforementioned principles of redemption. At that time, it may be remembered, we had a very large outstanding debt remaining to be funded; the Revenue also fell short of the ordinary expenditure; and the stocks were falling in value, so that the rate of interest in the public market was near 51/2, per cent. In this state of the debts and finances, a 6 per cent. stock was the most proper for the conversion. But since that time the state of things has been considerably altered. The unfunded debt (or at least the chief part of it) has been fince funded; the Revenue has been encreased; and the stocks have risen in value. On this account a 5 per cent. stock is the most applicable to the present+ state of the debts and finances; and a 5 per cent. stock is, accordingly, made the basis of the practical part of the subject as laid down in the third Essay.

The second and last section of the Postscript or Appendix to the second Essay contains remarks on a plan for raising money by public Loans, and for redeeming the public debts, as laid down in a pamphlet published in the spring of the year 1783, by Doctor Price; some parts of which, as they appeared to me, the Doctor had not sufficiently considered.

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xv

THE THIRD ESSAY relates, principally, to the practical part of the subject. This part requires a much less degree of labour, in the persual, than is necessarily required for the persual of the investigative parts contained in the first and second Essays: And, for the benefit of those who may not have sufficient leisure to go through those investigative parts, I have endeavoured so to arrange this part of the subject, as that it may be read either with, or without, a previous perusal of the former Essays.

This third Essay is divided into three sections. The original manuscript contained only two sections; but, the Monthly Reviewers having, as was mentioned above, represented two points (the one contained in the second section of the Postcript or Appendix to the first Essay, and mentioned in their Review for November 1784; and the other contained in the second section of the second Essay, and mentioned in their Review for December 1785) as being erroneous;—and the latter of these two points being very intimately connected with the practical part of the subject; I thought it right to discuss these two points over again, before I proceeded to lay the practical part before the

THE FIRST SECTION, therefore, of the third Essay, contains observations in support of the abovementioned parts of the first and second Essays, in answer to the remarks of the Monthly Reviewers. These observations are confined (as closely as the necessary examinations would well admit) to the points actually in dispute;—to wit,—First, The comparative value of a 5 per cent.

stock

xvi

flock at the time of the Loan of 1781; and fecondly, the Proposition and Demonstration contained in page 16 &c. of the second Essay, respecting the comparative values of Annuity Stocks, bearing a higher interest than the ordinary rate of the market, subject to a periodical tender, equal to the interest or annuity, for the redemption of the capital. And I cannot entertain a doubt but the observations contained in this section will clear up the points in dispute to the perfect satisfaction of all that shall examine them.

THE SECOND SECTION of the third Essay contains brief Observations respecting the nature and prefent state of the public debts of Great-Britain; with the out-line of a plan for putting them into a regular course of Redemption: this section points out the necessity of a regular attention to the redemption; the necessity of a previous conversion of the debt into stocks bearing a rate of interest (as high as, or) higher than the ordinary rate of the market:—and, the necessity of fecuring the new stocks from a reduction of the interest (by limiting the tender to which they shall be subject for their redemption) in order to give them a free capacity for rifing in value; whereby alone the losses that have been sustained by the depreciations that have taken place in the value of the old Stocks, can be regained by the creditors.

THE THIRD AND LAST SECTION of the THIRD ESSAY contains a more particular account of the plan proposed; together with the variations necessary to be made, in order to render it applicable, in practice, to the several and respective circumstances and conveniencies of the different classes

[xvii]

classes and denominations of the Public Creditors. The plan, with its variations, is briefly this, viz.

First. To convert the public debts into a 5 per cent, stock, by offering to the creditors, a certain proportion of such 5 per cent. stock in exchange for their present stocks and annuities.

secondly. To fecure the new stock from a reduction of the interest; by making it liable only to a periodical tender for its redemption, equal to the annuity.

Thirdly. To provide for the conveniencies of those to whom the periodical redemption might be inconvenient; by allowing a suspension of the tender on certain fixed principles.

Fourthly. To provide for the conveniencies of those whose situations and circumstances might be such as to require temporary annuities, for lives or years; by allowing a transcription of the redeemable stock into such temporary annuities, on certain sixed principles, according to their respective values.

Fifthly. To give a further general encouragement for the conversion of the debt; by granting a preference, in all future Loans, to the holders or proprietors of the new stock.

Such are the Contents of the three Essays. There is, however, a little circumstance which arose in the course of the investigation, that has not been laid down in either of the Essays. The knowledge of this little circumstance is of importance

[xviii]

portance only to practical Financiers:—To them indeed, it is of much importance; because, without it, the public must be saddled with certain prodigious losses, that are, in their nature, as easily to be avoided, as permitted. But when it is considered that the investigation of this important subject has been attended with an immensity of labour; the reservation of this little circumstance, for the benefit of the labourer, will not, it is humbly hoped, be deemed unpardonable.

ESSAY III.

SECTION I.

Observations in Support of certain Parts of the First and Second Essays; being in Answer to the Remarks of the Monthly Reviewers, contained in their Publications for November 1784, and December 1785.

I. I T was, as I mentioned in the preface to my first Essay, the importance of the subject only that induced me to communicate to the Public, the Result (or rather certain parts of the Result) of a very laborious Investigation. The same motives that induced me to undertake so arduous a labour, cannot fail of actuating me to undertake a desence of the doctrines I have laid down. With respect to style and language, I should make, perhaps, but an aukward sigure in a literary disputation with the Monthly Reviewers. I cannot, however, but entertain the sullest hopes that the soundness of the doctrines I shall advance in the present instance, will be found to at one for the want of elegance in manner of expression.

2. In their Review for December 1785, they inform the Public, that they had given an account of my first Essay in a former Review; viz. that of November, 1784:—That they received from me, by

ESSAY

their report to be near the truth) they really have fomething to add or alter with respect to that

account.

3. The only actual point (for I do not regard general expressions unless they are brought to a point) in dispute between us, respecting the first Essay, is,-What would have been the comparative value of a 5 per cent. annuity stock, at the time of the Loan of 1781, such 5 per cent. ftock being redeemable at pleasure? I have said (in a Note, page 207 of the first Essay, as is mentioned in the Monthly Review for November 1784) and I still continue to fay, that the then comparative value of such 5 per cent. stock would have been about $78\frac{2}{5}l$. as nearly as may be. The Reviewers fay, in the latter part of their account of the first Essay, and (inasmuch as they refuse to correct it after receiving my Manufcript) they continue to fay, that the then comparative value of such 5 per cent. stock, would have been about 921.* On these values we join issue. 4. It

* The 4 per cents were, then, actually taken at 70; and, as 4: 5:: 70: $87\frac{1}{2}$ only. How then could a 5 per cent. stock have been worth 92?—We may possibly (but I should think not probably) differ, on further reflection, with respect to what it really was worth; but I am persuaded we shall agree, thus far at least,—that it could not have been worth 92; for, it is evident, that an annuity of 51. in the 4 per cent. stock, would not have been redeemable, without the consent of the Annuitant, but on a future payment of 1251. An annuity of 51. in the supposed

3

4. It is not, indeed, a matter of real consequence to the Public, who shall agree, or who shall disagree, with respect to the comparative values of annuity stocks, bearing different rates of interest, and being each redeemable at pleasure by par payment. Whether the Monthly Reviewers and I may hereafter agree or disagree, with respect to the comparative values of fuch stocks; we shall, I doubt not, agree perfectly in this, to wit,-That fuch stocks must, in actual practice, be attended with great difadvantages and inconveniences, either to the Creditors, or to the Public, or finally to both. If fuch stocks are above par, the Creditor must be liable to sudden reductions of the interest; and if they are below par, the Public must be liable to immense losses in the redemption; or else (which, in practice, will naturally be the real case) no material redemption of such stocks can ever be effected. Stocks of this kind are, therefore, entirely unfit for a public debt, whoever shall agree, or whoever shall disagree, with respect to their comparative values.

5. But, although (on account of the above-mentioned difadvantages attendant on this particular kind of annuity stocks) their comparative values are not matters of real consequence to the public; yet, seeing that they are the points at is at the series of the points at is a series of the points at the points at its a series of the points at the

5 per cent. stock would have been redeemable, whether the annuitant would consent or not, on a future payment of 100%. The former was actually obtained for $87\frac{1}{2}$ %. It is evident, therefore, that the latter could not in possibility, have been worth so much as $87\frac{1}{2}$ %; instead of 92% however we may, or may not, on further reflection, agree or disagree, with respect to what it really was worth.

* 4]

is highly proper, if it can be done without giving the reader too much trouble, that we should either support our respective affertions, or ac-

knowledge our Miltakes.

6. The abovementioned comparative value of a 5 per cent. stock at the time of the loan of 1781, viz. 782; was, it must be remembered, the result of a computation made from the value of the 3 per cent. stocks, and the nature of the Loans that had been made previous to the Loan of 1781, without having any regard to the value of a 4 per cent. stock. But if we take to our aid, the value of the 4 per cent. stock, in the stead of the nature of the Loans, the result will (or at least should) be nearly the same: and this latter method of computation will probably be much easier, and perhaps more convincing, than the former method, particularly to those that have not made the nature and principles of Public Credit their peculiar study.

7. It is evident to every body, that, if there be a 3 per cent. a 4 per cent. and a 5 per cent. stock, each redeemable at pleasure, by the payment of the same sum of 100l. an annuity of 5l. in the 5 per cent. stock, will be redeemable at 100/. whether the Annuitant consents or not; whereas, the same annuity of 51. in the 4 per cent. stock, will not be redeemable, without the confent of the annuitant, for a less sum than 1251. and, the same annuity of 51. in the 3 per cent. flock, will not be redeemable, without the confent of the Annuitant, for a less sum than $166\frac{2}{3}l$. Hence, then, the 3 per cent. stock must be worth more, in proportion to the annuity, than the 4 per cent. stock; and the 4 per cent. stock must be worth more, in proportion to the annuity, than the [5]

5 per cent. stock. The truth of this observation is supported, in actual practice, by the daily prices of the stocks in Exchange Alley; although our present 5 per cent. stock is not redeemable at pleasure, and is therefore worth more than it would be if it was redeemable at pleasure.

8. The little or no probability of the 3 per cents ever rifing to par, renders a very great part of the privilege, which that stock, in particular, affords, with respect to the consenting or not consenting to the redemption, to be, indeed, of but very little real value; and it may, therefore, be confidered, as a general rule, that, by fo much as the value of any annuity in the 3 per cent. stock (supposing all the stocks to be, as aforementioned, redeemable at pleasure by par payment) shall exceed the value of an equal annuity in the 4 per cent. stock; by so much, at least, the value of such annuity in the 4 per cent, stock will exceed the value of an equal annuity in a 5 per cent. stock*. If we admit this rule to be sufficiently near the truth for our present

^{*} Our present 5 per cent. stock is not redeemable till 25 millions of the other stocks shall have been previously redeemed. On this account our present 5 per cent. stock is worth something more than this rule would give; but a 5 per cent. stock, redeemable at pleasure (which is the stock actually in dispute) would be worth rather less than this rule would give.—To prove this by an example,—Let it be supposed that a 4 per cent. stock should be worth 90l. when a 3 per cent. stock is worth 70l. which is evidently a very possible case; and far from an improbable one. In this case, the above rule would give 108½ for the value of a 5 per cent. stock; but, it must be evident to every body, that no man, consistent with his own interest could give 108½ for a 5 per cent. stock, redeemable at pleasure, when he could buy a 4 per cent. stock for 90l. That is, no man, consistent with his own interest, could give 108½ for an annuity of 5l. redeemable at pleasure, on the future

purpose, we shall find by it, that the value of a 5 per cent. stock, at the time of the loan of 1781, would have been nearly the fame $(78\frac{2}{5})$ as I mentioned in page 207 of my first Esfay: for, at the Loan of 1781, the 3 per cents were taken at 58, which is $19\frac{1}{3}l$. for each one pound of the annuity; and the 4 per cents were taken at 70, which is 17½ for each one pound of the Annuity; the difference is 15/6/2, which, being substracted from $17\frac{1}{2}l$. leaves $15\frac{2}{3}l$. for the then value of each one pound annuity in a 5 per cent. stock; so that, according to this rule, a 5 per cent. stock would have been worth about $78\frac{1}{3}l$. This agrees so very nearly with the abovementioned $78\frac{2}{5}l$. that the Public will, I doubt not, do me the honour to believe, that my principles hold true in a much greater degree than the Monthly Reviewers have been pleased to allow. If the Reviewers should not think proper to admit the above rule, and the consequents flowing from it, I should take it as a favour, that they would affign fome good reason, why, when each flock is redeemable at pleasure, by par payment, the value of any annuity in a 4 per cent. stock should not exceed the value of an equal annuity in a 5 per cent. stock, in as great a degree, as the value of such annuity in a 3 per cent. stock shall exceed the value of an equal annuity in a 4 per cent. stock. If such good reason do not exist (and I do not think it can exist) the value of such 5 per cent. flock could not, it is evident, have been bigber than I have mentioned.+ 9. Having

9. Having faid enough with respect to the truth of my own affertion, viz. That, at the time of the Loan of 1781, the comparative value of a 5 per cent. stock, redeemable at pleasure, would have been about 7821. I have, next, to point out the error of the Reviewers in supposing that it would have been about 921.

10. The foundation of their error is this, -They take a Case, in August 1784, at which time the 3 per cents were at $57\frac{3}{4}l$. and the 4 per cents at 751. and they reason from it, as if they considered it to be a parallel case with that of the Loan of 1781, at which time the 3 per cents were at 58, and the 4 per cents at 70%. Every body must furely fee that these cases are not parallel; and that any conclusions that shall be drawn from the one, can by no means be applicable to the other.

11. The Monthly Reviewers say (page 366, line 13 to 16) that my observations on the circulation of money, trade, taxes, and paper credit, are very ingenious and useful, though not perhaps true in the degree that I suppose. Had they examined the whole of what I faid (in the 6th, 7th, 8th, and 9th fections) respecting the circulation of money, with that strictness of attention which the nature of the subject indispensibly requires, they would have found that the value of a 4 per cent. stock was capable even of much greater variations than those above mentioned, from 70l. (as in 1781) to 751. (as in August 1784) although the value of a 3 per cent. stock should be, in each case (as it

be lower than the above rule would give; but I know of no possible case in which it could be higher than the above rule would give. This observation will justify my having said, in page 207, &c. of my first Essay, that no Man, confistent with his own Interest, could actually have given so much as $78\frac{2}{5}$. for fuch 5 per cent Stock, had it been created.

repayment of 100%, when he could buy for 1121%, an equal annuity of 51. not redeemable, without his own consent, but on the future re-payment of 125%.

in the last note, I pointed out a probable case, in which the value of a 5 per cent. stock, redeemable at pleasure, would

nearly was), at 581. And they would likewise have found, that it must be absolutely impossible for a 5 per cent. Stock to be worth 921. when a 4 per cent. Stock was worth only 701 whether the value of a 3 per cent. Stock should be bigher or lower

than 581. 12. It is evident to every body, that, at the time of the Loan of 1781, a man could obtain, for 871. 10s. (in the 4 per cent. stock, which was then at 701.) an annuity of 51. not redeemable without his own consent, but on a future payment of 1251. The present point in difpute, therefore, respecting the then value of a 5 per cent. stock, becomes reduced to this question, viz. When a man gives 871. 10s. for an annuity of 51. not redeemable without his own consent, but on the future payment of 125l. how much should he give for an annuity of 51. that shall be liable to redemption, whether he consents or not, on the future payment of 1001.? This question, in itself considered, without calling some futher data to our aid, admits of no precise or determinate answer. The only answer that can be given, without some further data, is this general one; That its value must necessarily be somewhere between the extremes of 70l. and 871. 10s. but whereabout, between these extremes, must depend on further considerations, whereby to ascertain the value that may or may not (according to the actual state of things for the time being, and the causes from whence such state of things shall have arisen,) be put, on the privilege of consenting or not consenting to the redemption; and in the course of this latter confideration we shall find, that, supposing each flock to be redeemable at pleasure by par payment, the self same causes that shall render a 4 per cent. stock worth only 70l. when a 3 per cent stock is worth 58l. will render a 5 per cent. stock worth only 78½ when a 4 per cent. stock is worth 70l. as is sufficiently evident from what has been said in the foregoing 8th article. This sield of the variations of the comparative values of this particular kind of stocks, is, however, so very extensive, and these stocks are likewise (for the reasons mentioned in the aforegoing 4th Article) so entirely unsit for public use, that twould be wrong to trouble the Public with any further arguments respecting their comparative values.

13. Whether, by this time, the Monthly Reviewers agree with me, or whether we continue to difagree, with respect to the comparative values of the above kind of Annuity Stocks, it is not, in either case, a matter of any real consequence: But, be that as it may, I have proved, at least, what I fat out to prove, as mentioned in the aforegoing 2d Article: (to wit), That (if they would wish their Report to be near the truth) they have fomething to add or alter with respect to their account of my first Essay.—They must, for instance, either acknowledge, that their case of August 1784, when the 3 per cents were at $57\frac{3}{4}$, and the 4 per cents at 75, from whence they considered the value of a 5 per cent. stock to be about 92; was not applicable to my case of the loan of 1781, when the 3 per cents were at 58, and the 4 per cents at 70; and consequently, that their conclusion was erroneous:—or else, they must support this very strange doctrine, that a 5 per cent. stock shall be worth 92, when a 4 per cent. stock is worth only 70.—This latter, I should presume, they would not attempt to do; because, even supposing a 5 per cent. stock to be no more liable to a reduction of the Interest than a 4 per cent. stock, it must be evident to every body, that their comparative values, even then, could only be in the proportion of 4 to 5; and, as 4:5::70:87 \frac{1}{2} only.

It is unnecessary to say any thing further refpecting their Remarks on my first Essay; save only, that I am exceedingly sorry at being put, in my own defence, to the disagreeable necessity of pointing out to the world, how little attention they pay to their Examinations.—A necessity, which the manuscript I formerly conveyed to them, and which they acknowledge to have received, was principally intended to prevent.

14. I proceed now to point out the Mistake into which they have fallen, in their Review for December 1785, respecting my second Essay.

Their mistake here, is of much more importance to the Public than their former Mistake:—It is, indeed, of very essential importance to the Public; because, it strikes at the root of one of the most material Elemental Principles of Public Credit.—It cannot, however, but give me much satisfaction, that the point in dispute should fall on this particular part; because it admits of Mathematical Demonstration; and is therefore liable to no differences of opinion, among those who shall carefully examine it.

15. The Point (and the only Point) in difpute between us, respecting the second Essay, relates to the Truth or Erroneousness (which ever of the two it shall be) of the Position which I

have

have laid down in page 16 of my second Essay, and which they have justly repeated in page 422 of their Review:—To wit, That,

"If any Annuity Stock, bearing any Rate
of Interest higher than that of the
Market, be subject to a periodical Tender, in discharge of the Capital, equal
to the Annuity or Interest therefrom
periodically slowing, the value thereof

will be precifely the same as if such Annuity was perpetual; and the rate of Interest half-way between that of the

"Market and that of the Stock*".

They say (page 422 of their Review) that my Demonstration of this Position is defective: I answer,—It is not Defective, but Perfect: and thus we join issue with respect to their Remarks on the second Essay.

16. It gives me much fatisfaction, as I faid in the aforegoing 14th Article, that the Point in

• R = the Rate of the increase, or amount of One Pound with its Interest for one period, according to any Rate of Interest higher than that of the Market.

A = the Periodical Annuity, or Interest flowing from any Stock or Capital, bearing the said higher Rate (R) subject to a periodical Tender for its redemption at par, equal to the Annuity (A) therefrom periodically flowing.

 $V \stackrel{\text{def}}{=}$ the capital value of fuch Annuity A, or which is the fame, the value of the Stock or Capital from whence it flows.

Then, I fay, (as in the above Position),
$$V = \frac{A}{\frac{r+R}{2}-1}$$

^{*} That is to fay,

Let r = the Rate of the increase, or amount of *One Pound* with its interest for one period (whether Year or Half-year), according to the actual Rate of Interest in the Market.

in dispute has fallen on this particular part; because it admits of Mathematical Demonstration, and is therefore liable to no differences of opinion, among those who shall carefully examine it. To give the Demonstration in this place, might perhaps be interruptive to a part of the Readers: I have already given it in page 16, &c. of my fecond Essay, and I shall give it again at the end of this fection. Whether Gentlemen of greater ability than I can pretend to claim, might, or might not, have given a Demonstration something different in its manner, is a question that I shall not take upon me to determine: but, however that may be, I appeal to the World for the verity of its matter. And, as the Monthly Reviewers have undertaken to represent it to the Public as being erroneous, their readers may naturally expect, that they should either acknowledge, their Mistake; or, support their Allegation.

17. Their Mistake is owing entirely to their not having attended to the distinction between the Roman Symbol R, which represents the Ratio of the Decrease of the Capital by Redemption; and the *Italic Symbol R*, which represents the Ratio of the Increase by Interest; in the manner mentioned (to avoid interrupting the Non-Algebraic Reader) in the note below.

18. I

[13]

18. I cannot, indeed, but wish, that the Printer had used (in the 6th, 7th, and 8th steps of the Demonstration) types that had been more strikingly distinguishable—this should have been done, had I been in England at the Time. I must, however, do the Printer the justice to say, that he made no Mistake in the Symbols, although he took them from a copy printed at St. Augustine, (where choice of types could not be had) in which copy, the Symbols were not more distiguishable than those he has made use of .- I must likewise add, in justice to the Printer, that many Gentlemen, as well in America as in England, have examined the Demonstration, without being, in any the smallest degree, at a loss, to distinguish the Symbols the one from the other; and without finding, in any other respect, the smallest Degree of difficulty. I may also venture to say, that the

for its redemption.—The R in the denominator on the right-hand of the Equation, is the *Italic Symbol*, which represents the Ratio of the Increase made by the addition of the Interest or Annuity.—If the Tender be equal in quantity to the Interest, it must be perfectly evident that R, the Roman Symbol, cannot be equal to R the *Italic Symbol*: It must evidently be, as I have put it in the 8th Step, viz.

 $R = \frac{1}{2-R}$; and the other Steps of course follow. In a 5 per cent. stock, for instance, R the Roman Symbol represents the Ratio of the Decrease of the Capital made by the tender of 51. whereby 1001. becomes decreased to 951. viz. the Ratio $\frac{1}{95}$; whereas R the Italic Symbol represents the Ratio of the Increase made by the addition of the Interest, whereby 1001. becomes encreased to 1051. viz. the Ratio $\frac{1.05}{1}$: wherefore $\frac{1}{2-R}$ is $\frac{1}{2-1.05} = \frac{1}{.95}$; and the like universally.

[†] They alledge, that I have put, in the 8th step of my Demonstration, $R = \frac{1}{2-R}$ but, on re-examination, it will be

found that I have not done fo.—The R which I put on the left-hand of the Equation is the Roman Symbol, which represents the Ratio of the Decrease of the Capital by the tender to be made

that both the Proposition, and the Demonstration, are just and true.

"danger to the Public in leaving errors relating to "danger to the Public in leaving errors relating to "it undetected," obliged them, they fay, to point out my mistake.—As the mistake happens to be theirs, and not mine; the same good motives will, it may reasonably be expected, induce them to acknowledge it, with that candour which is on all occasions due. And, to prevent any further Mistakes with respect to the Roman and Italic Symbols, I shall give the Demonstration over again, subtuting the Old English R in the room of the Roman R.

20. I have only to repeat, that I am exceedingly forry at being put, in my own defence, to the difagreeable necessity of pointing out to the Public, the little attention with which the Monthly Reviewers examine things; and (from the idea I would willingly entertain of their regard for truth) I shall naturally expect, at the least, their candid acknowledgement of the verity of these two Points that have been in dispute between us, viz.

First, That, when a man can obtain (as was the case at the time of the Loan of 1781) a 4 per cent. stock for 70l. he cannot, consistent with his own Interest, give for a 5 per cent. stock, redeemable at pleasure, so much as 92l. And,

Secondly, That, putting r, R, A, and V, respectively, as mentioned in the note to the aforegoing 15th Article, we shall have this Equation, viz.

$$V = \frac{A}{\frac{r+R}{2} - 1}$$

^{*} The Critical Review and the Monthly Review are different publications.

[‡] Critical Review for April 1785.

PROPOSITION.

In which is comprehended, one of the chief Elemental Principles of Public CREDIT.

If any annuity flock, bearing any rate of interest higher than that of the market, be subject to a periodical tender, in discharge of the capital, equal to the annuity or interest therefrom periodically flowing, the value there of will be precisely the same as if such annuity was perpetual; and the rate of interest half-way between that of the market and that of the flock.

DEMONSTRATION.

I. If any annuity, $a = C \times \overline{r-1}$, fhall flow from any perpetual annuity flock or capital C, bearing a rate r, equal to the ordinary rate of increase by interest in the market; then it is evident that the value or prefent worth of fuch annuity a_2 , or of fuch flock C_2 , will

be - - - - - - - -
$$C = \frac{a}{r-1}$$

II. But the value or present worth of such annuity flock, and the present worth of all the periodical annuities, so flowing therefrom, ad infinitum, are precisely one and the same thing; wherefore we have,

$$\frac{a}{r} + \frac{a}{r^2} + \frac{a}{r^3} + \frac{a}{r^4} + \frac{a}{r^5} + \quad \text{&c. ad infinitum, } = \frac{a}{r-1}$$

III. Again, if any annuity $A = C \times \overline{R} - 1$, shall flow from any redeemable annuity flock or capital C, equal in nominal capital to the former, but bearing a rate of increase by production R, higher than the ordinary rate r, of increase by interest, in the market; then it is evident, that the value or present worth of such annuity A, or of fuch stock C, must be greater than the former, according to the terms or conditions, on which the faid flock or capital shall be redeemable; whereby the extra part A-a of the annuity (or the extra interest $C \times \overline{R-r}$) shall, so far forth, expire.

IV. And if such stock or capital C, bearing the said rate R, be subject to any given periodical ratio R of redemption, by par payment; then it is evident, that the faid extra part A-a of the annuity, must periodically decrease in that given ratio, and must therefore become periodically as follows, viz.

$$\frac{A-a}{1}$$
, $\frac{A-a}{\mathbb{R}^2}$, $\frac{A-a}{\mathbb{R}^3}$, $\frac{A-a}{\mathbb{R}^4}$, &c. ad infinitum;

the value or present worth of which is

$$\frac{A-a}{r} + \frac{A-a}{r^2 \Re} + \frac{A-a}{r^3 \Re^2} + \frac{A-a}{r^4 \Re^3} + \frac{A-a}{r^5 \Re^4} + \quad \&c. \quad ad$$

infinitum; which (per II.) is equal to
$$\frac{A-a \times R}{rR-r}$$

V. Wherefore (I. & IV.) the value or present worth (which let be called V) of the faid annuity A, or stock C, bearing the rate R, is

$$V = \frac{a}{r-1} + \frac{\overline{A-a} \times \Re}{r \Re - 1}$$

VI. Now if the periodical tender, to which the faid flock or capital C, bearing the faid rate R, be subjected, shall be equal to the annuity A, therefrom flowing;

then it is evident, that
$$\frac{C}{\mathbb{R}} = C - A$$

VII. Which $C = C - C \times \overline{R - 1} = 2C - CR$.

VII. Which
$$C = C - \overline{C \times \overline{R-1}} = 2C - CR$$

VIII, Wherefore,
$$=$$
 $\frac{C}{2C - CR} = \frac{1}{2 - R}$

8r 1

IX. In this case, therefore, the abovementioned value or present worth (V_{\bullet}) of the annuity A_{\bullet} , or of the stock C_{\bullet} bearing the rate R_{\bullet} will be

$$V = \frac{a}{r-1} + \frac{\overline{A-a} \times \frac{1}{2-R}}{\frac{r}{2-R} - 1}$$

X. Which (by reduction) is $V = \frac{a}{r-1} + \frac{A-a}{r+R-2}$

XI. But (I.) $a = C \times r - 1$ wherefore the above value or prefent worth (X.) is $V = C + \frac{A - C \times r - 1}{r + R - 2}$

XII. Which (by reduction) is $V = \frac{CR - C + A}{r + R - 2}$

XIII. Again (III.) $A = C \times \overline{R - 1} = CR - C$; wherefore the above value or present worth (XII.)

$$V = \frac{2A}{r+R-2}$$

XIV. Which (by reduction) is
$$V = \frac{A}{r+R-1}$$

WHICH WAS TO BE DEMONSTRATED

SE C-

[19]

SECTION II.

General Observations respecting the Nature and Prefent State of the Public Debts of Great Britain; together with the General Out-line, or Elemental Principle, of a Plan for putting them into a regular Course of Redemption.

felf-evident, that wherever it shall become necessary to incur a large Debt, a provision ought to be made for the discharge or diminution thereof.—All men agree, that there ought to be, in addition to the Interest, a Surplus or Sinking Fund, applied to the redemption of the Principal: but although mankind are agreed thus far, they do not agree with respect to the manner of

applying fuch Sinking Fund.

2. It might be easily conceived, that, if the application of a Sinking Fund to the redemption of a Debt was productive of one, and only one, simple and determinate effect, there could be no room for a difference of opinion. The difference of opinion arises, therefore, from this, viz. The application of a Sinking Fund is productive (not of one single effect, but) of a chain or series of effects; which, in the natural course of Commercial Circulation, become extended through all parts of the Community, or Body-Politic; in much the same manner as the effects of a medicine become extended, by the natural course of Circulation, through all parts of the Body-Natural. Hence it is, that Gentlemen differ in their opinions, according as they examine the nature of this chain or series of effects, with a greater or lesser degree of attention, strictness, and accuracy. Two of these effects require to be particularly attended to.

R 2

3. For

3. For Example, It is univerfally known and understood, that if a Surplus or Sinking Fund be periodically applied, without interruption, to the redemption of Annuities, at any fixed price; the redemption will be effected in a Geometrical Progression:—that is, in the same manner as such Surplus or Sinking Fund would become accumulated, by being improved at Compound Interest. A Surplus or Sinking Fund, for instance, of one Million a year, (or rather 500,000l. per half-year, supposing the payments to be made half-yearly) reckoning Interest at 5 per cent. per ann. (that is, reckoning the price to be paid for the redemption of each 1l. Annuity to be fixed at 20l.) would, by being uninterruptedly applied for 60 years, redeem 367,166,800l. of Capital Stock bearing 5 per cent. and would thereby release an annual Revenue or Interest of 18,358,3401. But this, it must be stristly observed, depends on the supposition, that the price to be paid for the redemption of each il. Annuity, be actually fixed at 201.—If, therefore, the price be not so fixed, the conclusion does not hold good.

4. It is likewise universally known and admitted, that the application of a Sinking Fund to the redemption of a Public Debt, will naturally produce a rise in the value or price of the Annuities, in case they shall have a capacity for rising in value. Now, if, instead of supposing the price for the redemption of each 11. Annuity to be fixed (as in Article 3) at 201. we should suppose the said price to rise from 201. to 211. 221. 231. 241. and so on, annually, the progressional power of the Sinking Fund would be so deseated, that the uninterrupted application of the aforesaid Sinking Fund of one Million a year, during the aforesaid

21

aforesaid term of 60 years, would, in such case, redeem or release only 3,000,000. of annual Revenue or Interest, instead of the abovementioned 18,358,340. It is therefore, indispensibly necessary, when we speak of the Debt of any particular Nation, to be strictly attentive to the nature of the case, before we venture to draw conclusions.

Having thus premised, we may proceed to consider the Public Debt of Great Britain.

5. The great bulk of the Public Debt of Great Britain consists, it is well known, of 3 per cent. Annuities*; the market value whereof, has been varying backwards and forwards, again and again, fince the conclusion of the Peace in January 1783, between 181. and 241. for each one Pound of the Annuity:—That is, between 54l. and 72l. for each 1001. of 3 per cent. Stock; but they are not fixed at any of these prices. They have a capacity for rifing to $33^{\frac{1}{3}}l$ for each one pound of the Annuity; that is, the Stock has a capacity for rifing to 100l. and were a Sinking Fund to be applied to the redemption of the Debt in its present state, this rise would naturally be thereby produced, and the progressional power of the Sinking Fund would be thereby (in great meafure) defeated, as mentioned in the aforegoing 4th Article.

6. It

^{*} Gentlemen who would wish for historical information, respecting the exact quantity of our Debts at different times, and the manner in which they have been incurred, will please to read Mr. Sinclair's History of the Revenue. This Essay not being of an historical nature, I

22

6. It is also well known, that the above mentioned rise in the value of the Stocks, would oblige the Public to pay, in the redemption, immense sums that have never been received.—A very considerable part of our 3 per cents, it is well known, brought less than 60% but were a sufficient Sinking Fund to be applied, they would quickly require 100% for their redemption. This would evidently be unjust, and it ought, consequently, to be avoided.

7. But,

shall only observe, that at this time (January 1786) the Funded Debts stand something nearly (but the Statements I have seen do not exactly agree) as follows.

1. £.187,613,244 of 3 per cent. flock, which, if we reckon them according to their average value for the last three years, viz. about 63l. (being half-way between their late extreme prices of 54l. and 72l. will be worth, about

Millions,

2. £.32,750,000 of 4 per cent. flock, which, reckoning after the fame manner, will be worth about

27 x

3. £.17,869,994 of 5 per cent. flock, by which were cancelled fundry outstanding debts, amounting to about - - -

16.

4. Sundry Temporary Annuities of different lengths; worth about, for even numbers,

Total value, about 182 Ms.

But were we to attempt an effectual redemption, in the present state of the Debt, such redemption would require above 250 millions.

† It is imagined by some, that this rise in the value of the Stocks, and the loss to the Public thereon attendant, might be avoided, by employing the Sinking Fund in purchasing up the Stocks privately and filently; but this is a

[23]

7. But it is perfectly evident that this immense loss to the Public cannot possibly be avoided, unless the price to be paid for the redemption shall (on some principle or other) be prevented from rifing in consequence of the application of the Sinking Fund; nor can this be done, but by a New Agreement with the Creditors. It must likewise be observed, that many of the Creditors have sustained great loss by the depreciation which has taken place in the value of their Stocks or Annuities; which loss can never be restored to them, but by a future rise in their value.—This being the case, the capacity for the Stocks or Annuities to rife in value, must not be done away; because thereby the Creditors would be faddled with an immense loss; which would be equally unjust, and ought, of course, to be as effectually avoided, as the loss to the Public mentioned in the aforegoing 6th Article.

8. Hence then, it is effentially necessary, in order to administer that mutual justice which ought always to be observed, that the plan or scheme to be agreed on for the redemption of our Public Debt, should be such as shall, in its nature, avoid effectually, each of the abovementioned Losses. That is to say,—The plan to be adopted, ought to be such, as shall in its nature fix the price to be paid for the redemption, and leave,

very great mistake. The additional dentand for the Stocks, and the diminution of their quantity, must necessarily raise their price in proportion to that demand and diminution; however filently it might be conducted. A small redemption would, indeed, produce but a small effect; but the loss would necessarily encrease, as the redemption should become encreased.

[24]

leave, at the same time, a free and secure capacity for the Annuities or Stocks, appertaining to the Creditors, to rise in value.—This may be done

feveral ways.

9. If, for example, an Annuity of 31. 55. or 31. 10s. more or less, to continue a certain number of years and then cease, should be given in exchange for 1001. of 3 per cent. Stock; then, the additional 5s. or 10s. a year, fo given, would be, in effect, a finking Fund, whereby the redemption would be effected, according to the fixed rate on which the exchange of the Annuities, the one for the other, was founded; and the unexpired term of the Annuity, fo given, would always have a free and secure capacity for rising in value, according as the Rate of Interest for Money might fall. The same observation would hold equally true, if Annuities for Lives were to be given in exchange for the present Annuities. It is, however, justly allowed, on all hands, that a conversion of the Debt into Annuities for Years, or Lives, would not be practicable, to any very great extent. It is unnecessary, therefore, to enlarge here, either on its advantages or its defects.

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[25]

allowed to be far preferable to temporary annuities, in commercial countries like Great Britain. The Plan therefore, that I shall beg leave to propose, is, to fix the price to be paid for the redemption, by converting the debt (according to the actual value of the stocks, to be agreed on with the creditors) into stocks redeemable at par, bearing a rate of interest as high as (or higher than) the ordinary rate of the market. And, to give the new Stocks a free and secure capacity for rising in value above par, by limiting the proportion which the creditors shall be periodically liable to receive, if tendered, towards the redemption of the capital.

In the second section of my second Essay, I investigated and ascertained the proportion which the tender, to be thus periodically made towards the redemption, ought to bear to the Stock or Capital so to be periodically redeemed, in order to produce the greatest possible advantages to the Public, and to the Creditors: And the result of that investigation was, that it would be the most advantageous for both parties, that such new Stock should be liable to a periodical tender towards the redemption of the capital, equal to the Annuity or Interest therefrom periodically slow-

ing

be, of the two, still more disadvantageous to the Public than Long Annuities for years: because, the value to be given for such Life Annuities would, naturally, be reckoned, according to the ordinary degrees of the Probability of the Duration of human Life; but the most healthy persons that could be pitched on, would naturally be selected, by the Purchasers, for Nominal Annuitants, in case any thing of this kind should be attempted on a great scale.

Temporary Annuities, either for lives, or years, might, with very great propriety, be granted as a collateral measure, in order to suit the conveniencies of such of the Public Creditors as might, from their peculiar situations and circumstances, particularly desire them: but an establishment of such Annuities, on a great scale, would be highly improper and disadvantageous. The disadvantages attendant on long Temporary Annuities, are well observed by Mr. Sinclair, in his History of the Public Revenue of the British Empire, Part II. Chapters iv, and v. Life Annuities on any-very large scale, would

ing. The general out-line, therefore, of the Plan here proposed, is, to convert the debt into a new Annuity Stock of this kind; by offering such of the present creditors, as shall think proper to accept of the proposed exchange, such a certain quantity of the said new Stock, as shall be equal in value to their present Stocks or Annuities; together with such an addition, by way of premium, as shall be thought proper, in order to induce them to give the new Stock the presence.

So much for the general out-line, or elemental principle of the plan.—The variations intended, in order to fuit the particular conveniences of the Creditors, will be the fuject of the next fection.

full enumeration of the effects that would naturally flow from this conversion of the debt: It may not, however, be amis, before we enter on the next section, to mention two or three of the most obvious.

In the first place, it is evident that the losses which the Public would sustain (as mentioned in the aforegoing 6th article) by paying, for the redemption, immense sums that have never been received, would, by this conversion of the debt, be effectually avoided. This is, clearly, an object of immense importance.

Stocks bearing a higher rate of interest; any finking Fund, that shall be applied to the redemption, will have a much greater progressional power, than it would have, if applied to the redemption of Stocks bearing a low rate of interest.*

* The Annual Revenue or Interest that would be redeemed or released in 40 years, by a finking Fund of One

27

This doctrine is so generally understood, that it is unnecessary to enlarge on its immense im-

portance.

13. The limiting of the tender to which the new Stocks shall be periodically liable for their redemption, effectually secures the Annuity or Interest appertaining to the creditors, from being reduced; and thereby gives a free and secure capacity for the new Stocks to rise in value; and the application of a finking Fund will naturally cause them to rise higher and higher; whereby the creditors will regain, gradually, the losses that have been hitherto sustained by their depreciation. The importance of this security

Million a Year (or rather 500,000l. per Half Year), applied to the Redemption of Stocks at par, would be as follows: viz.

If applied to 3 per Cent. Stocks £2,283,072
4 per Cents
5 per Cents
6 per Cents
9,640.844

The Difference is immense.

6 per Cents On this account it is equally the Interest of the Creditors, as of the Public, that the Debt should be converted. If the Debt should remain unconverted, every reason would remain for us to expect that the Stocks would depreciate during the next 30 years, in the same manner as they have done during the last 30 years. Some people have recommended, as a Preventative against this Depreciation, the establishment of an unalienable sinking Fund, to be perpetually applied to the Redemption of the Debt, as well in time of War as in time of Peace; but they have confidered the nature of the subject only in part. Such a measure, without a previous Conversion of the Debt, would not only faddle the Public with the Losses mentioned in the aforegoing 6th Article; but in time of War it would be attended with still further losses; because, the Interest or Revenue that would be required to obtain of the Interests of the Creditors, is likewise evident.

14. The above mentioned rife in the value of the new Stocks (which will naturally be produced by the application of a finking Fund to their redemption) will secure the perpetual application of the finking Fund to the redemption of the debt, as well in time of war as in time of peace; because, the market value of the Stocks being so carried above par, any monies, that may be wanted for the Public Service, will be obtainable in the market, for a less proportionate revenue or interest, than that which will be released by applying the finking Fund to the redemption of the debt. This circumstance of securing the perpetual application of the finking Fund to its proper line of service, and thereby causing the redemption of the debt to proceed in a perpetual geometrical progression, is likewise a matter of immense importance.

Such are the advantages which, with an infinity of others, would naturally flow from a convertion

obtain any Sum of Money in the Market, would be greater than the Interest or Revenue that would be released by applying an equal Sum to the Redemption of the Debt. It is, indeed, true, that the Financial System ought to be so constructed and conducted, as that the sinking Fund should be perpetually applied to the Redemption of the Debt, as well in time of War as in time of Peace; but it is essentially and indispensibly necessary, as a previous Requisite, that the sinking Fund, so to be applied, should be enabled to release, by the Redemption, a greater Revenue or Interest than would be required to obtain an equal Sum of Money in the Market. This previous Requisite will be obtained by the abovementioned Conversion of the Debt; as will be observed in the 14th Article.

[29]

version of the debt into Annuity Stocks bearing a higher rate of Interest, subject to the aforementioned limited tender for the periodical redemption of the capital.

SECTION III.

Of the General Variations necessary to be made, in order to render the aforementioned Elemental Principle applicable, practically, to the several and respective Circumstances and Conveniencies of the different Classes and Denominations of the Public Creditors.

1. THE Public Stocks and Annuities of M which the Debts of the Nation are composed, are, it is well known, the property of a great diversity of people, whose views, occupations, fituations, and circumstances, are very different. It is therefore impossible, in the nature of things, to devise any one Plan that shall, without variation, fuit the conveniencies of the whole: and as nothing may be done, but by the consent or approbation of the Creditors, it becomes necessary to confider how far the proposed Plan may, without variation, be fuitable to the conveniencies of part of the Creditors: how far variations may be made, confiftent with the spirit or Elemental Principle of the Plan, in order to fuit the conveniences of others of the Creditors: In what cases the Plan, by not suiting the conveniencies of others of the Creditors, may be inapplicable: and, what other Measures may be applied, in cases where the Plan proposed shall be inapplicable (if any fuch cases there should be) in

[30]

order to effect the great object of reducing the Public Debt within more reasonable bounds, and preventing its excessive accumulation in future.

2. In order to ascertain how far the proposed Plan shall be applicable or inapplicable to the conveniencies of the Public Creditors, it is necessary to divide them into different classes.—
These different classes of the Public Creditors may be comprized under the following Three General Heads: viz.

First—People to whom the Value of the Capital is of more Consequence than the Interest or Annuity. This is the case with people that are engaged in business, who place their Money in the Stocks occasionally, and occasionally draw it out by a Sale, as their business may, from time to time, render necessary or convenient.

Secondly—People to whom the Value of the Capital, and the Interest, or Annuity, are of equal Consequence. This is the case with Minors, and with People not immediately in business, who will naturally have occasion for their Capital at some distant day, and must live on the Interest in the intermediate time.

Thirdly—People to whom the Annuity or Interest is of more consequence than the Value of the Capital. This is the case with those who want the Annuity only, and who do not expect ever to have occasion for their Capital.

A further Subdivision, particularly of the Third General Head, may, in the course of the Discussion, become necessary. But it is perfectly evident.

7 31

evident, that every Individual of the Public Creditors, whether he be a Native, or a Foreigner, must necessarily fall under some one or other of these general heads: That is to say, he must, evidently, either regard the Annuity and the Capital in an equal degree; or else, he must have a greater degree of regard for one than he has for the other.

3. It must be strictly remembered, and may therefore, without unpardonable tautology, be here repeated, that the effect intended to be produced, is, a gradual diminution of the public debts and incumbrances, by such a fair and equitable discharge of the Capital or Principal, as shall be productive of the greatest advantages and conveniencies to ALL, and the least disadvantages or inconveniencies to any, that can, in the nature of things be possible.

It must likewise be remembered, that the general principle, or outline, of the plan proposed for this purpose, is, to fix (with the consent of the Creditors) the price to be paid for the redemption, by converting the debt, or as much thereof as may be, into annuity stocks redeemable at par, bearing a rate of interest as high as (or

higher than) the ordinary rate of the market, fubject to a limited tender for the periodical redemption of the capital, equal to the annuity or interest therefrom periodically flowing.*

have

^{*} See the 10th article of the last section:—See also the second section of the second Essay; in which it is shewn, that no other tender, whether greater or lesser, would be equally advantageous to the public and to the creditors. A greater tender would, indeed, be more advantageous for

have, therefore, to consider, how far this principle will accord with the respective conveniencies of the aforementioned different classes of the Public Creditors; and what variations may be admitted, consistent with the general spirit of the plan, whereby to give it the greatest extent, in order to meet their respective conveniencies in

the greatest possible degree.

4. The first general class of the Public Creditors, to wit, those to whom the value of the Capital is of more consequence than the Interest or Annuity, may be confidered as comprehending all those that are engaged in business; as Bankers, Merchants, and inferior Tradesmen, who have alternately, from time to time, an occasion for their capitals in their respective callings; and who, when they have more money on hand than they have occasion for, lay it out in the Stocks, in order to obtain an Interest for sums that would otherwise lay, from time to time, idle and unproductive in their coffers. To this class of the Public Creditors the Annuity or Interest is of consequence, inasmuch, as it is a profit on monies that would otherwise lay dead. But the value of the Capital is still of greater consequence to them; because, by its depreciation, they might lose more, when they came to have occasion to sell out, than the Interest in the intermediate time might amount to; in which case they would, on the whole, sustain a loss.—By a rise in the value of the Stocks, they would, indeed, gain more than they would lose by an equal degree of fall; because

for the public, but it would be less advantageous for the Creditors; and a lesser tender would be less advantageous both for the public and for the creditors.

[33]

the Interest would be received in either case:-But, without putting the Debt into a train for redemption, (which, for the reasons contained in the 5th and 6th Articles of the second Section, can never be expected without a previous conversion of the Debt) there can be little or no chance for any permanent rise in the value of the Stocks. On the contrary, there must be much chance for a permanent fall; as the experience of these last thirty years sufficiently evinces. If, however, we could Suppose, (what both reason and experience contradict) that the chance of their rifing might be equal to the chance of their falling, yet, (at least to this first class of the Public Creditors), a reafonable profit in hand would be far preferable to fuch chance. A reasonable profit in hand is always more acceptable to people, in any kind of business, than a chance of a greater profit at a distant day, attended (as is always the case) with the opposite chance of losing instead of gaining.

To this first class of the Public Creditors, the plan proposed is peculiarly suitable. The premium to be granted for the conversion will be an immediate profit: The value of the New Stock will be subject to only about balf the degree of fluctuation that our present Stocks (particularly the 3 per cents) are subject to; and the retention of the Sinking Fund in its proper line of service (as mentioned in the 14th Article of the last Section) secures, as far as human things are capable of being secured, the rise, and thereby precludes the fall, in the value of the Stocks. Neither can the proportion to be tendered towards the redemption of the Capital be a matter of inconveniency to this class of Public Creditors: for, to people in business, it is scarcely possible that moderate

[34]

moderate sums of money can come unseasonablyt. It may not be amis to elucidate these

Observations by an Example.

5. The market values of our 3 per cent. Stocks, have varied backward and forward, (as I observed in the 5th Article of the aforegoing Section) fince the conclusion of the Peace in January 1783, between the extremes of 54 and 72, or thereabout; so that their average or middle value has been, for the last three years, about 631. It is necessary however, to observe, that we have now, little or no outstanding Debt remaining to be funded; and our Revenue is also greater (at least I have heard fo, and I have no reason to doubt the truth of it) than the expenditure.—This being the case, we may reasonably (notwithstanding their very fluctuating nature) consider the actual or central value of the 3 per cents to be higher than 631. And, as we may just as well elucidate the aforegoing Observations, by taking an Example fomething nearly agreeable to the actual state of things, as by taking any other Example, let it be supposed, for the purpose of elucidation, that the state of the market should be such, that 621. of 5 per cent. Stock, subject to the abovementioned principle of redemption, should be equal in value to 100l. of 3 per cent. Stock; which would be nearly the case, if the 3 per cents were worth about 661. in which case such 5 per cent. flock would be worth about 10431. in the market.

L 35]

In this state of the market (no material outstanding debt remaining to be funded) it would be most proper to convert the debt into such 5 per cent. stock: And, for this purpose, let it be C 2 supposed

‡ If the general (or central) value of the 3 per cents should be materially higher than 751. a 4 per cent. stock would be better than a 5 per cent. stock. And, on the other hand, if the general (or central) value of the 3 per cents should be as low, or lower than 60; or, if so large a debt should remain to be funded as would carry them so low as 60; a 6 per cent. stock would be the most proper. See the second Essay, from page 36 to page 73.

The following table shews the comparative value of a 5 per cent. stock, when a 3 per cent. stock is worth any where between 611. and 801. supposing the interest on the 5 per cents to be secured from reduction, by limiting the tender to which they shall be periodically liable for their redemption, in manner aforementioned, viz. That the tender shall not exceed the annuity. From this table, therefore, may be ascertained, the quantity of 5 per cent. stock that might be given in exchange for 1001 of 3 per cent. stock, in any state of the market in which a 5 per cent. stock could, with propriety, be applied.

				_		-		The same of the same	
Í		37.		. 1	77.3	37		. 1	It must not be expected
Value of									that the actual prices of the
1	100l. of								Stocks in the market should
1	per cts. 5 per cents.			3 per cts.	5 per cents.			agree exactly with these	
ł							9.1		comparative values; the
Ì	£.	£.			I.	\mathcal{L} .	. "		difference, however, would
1	₽.	~			~	75	٠	- 1	be exceedingly small. Our
1	61	100	16	61	71	108	49		present 5 per cents are not
1				0.1		1.0	1	4	indeed, worth fo much as is
i	62	IÇI	_	9_{2}	72	109	. 1		here mentioned : The rea-
Ì	63	102	.8	$9^{\frac{1}{2}}$	73	109	1.5.		fon is this; the interest on
١	64	103	4.	$6\frac{1}{4}$	74	110	8	111	our present 5 per cents be-
į	65	104.	o	0	75	111	2	21	comes liable to reduction,
ı	66	104	T.F.	$2\frac{3}{4}$	76	111	T C	2 I	whenever 25 millions of
1	_		2			1	ે ટ્રે		the other stocks shall be
1	67	105	10	2-3	77	112	୍ଷ		redeemed; but the 5 per
1	68	106	5	0	78	113	0	$10\frac{1}{2}$	cents in this table are fe-
1	69	106	19	64	7.9	112	13	41	cured from a reduction of
4	70	107	12	10	8ó	TTA		81	the Interest, by the limit- ing of the tender.
	/5		-3	,	11	14		02	ling of the tender.
	COMPANY OF STREET				The same of the sa	-		-	Contract of the second of the

Public Creditors, to whom the Tender might be at any time inconvenient, they will find their conveniencies fuited, by the variations that will be hereafter proposed, when we come to speak of the second class.

supposed that 661. of such 5 per cent. stock were offered, by Government, in exchange for 100%. of 3 per cent. stock; and a like proportion, according to their value, for the 4 per cents, &c.§ Now, it is evident that this offer would afford an immediate profit of 31. on every 631. to those who should subscribe to the conversion. The fubscribers would likewise obtain an additional annuity of two shillings in the pound: For, the 661. of 5 per cent. stock would be attended with an annuity of 31.6s. whereas, the 1001. of 3 per cent. stock is attended with an annuity of only 31.* Should the stocks rise in value, the creditors that should subscribe to the conversion would still be profited by that rife; and, should the stocks fall in value, the profit granted by the conversion could not even then be defeated, be-

* The advantages which the public would obtain in exchange for this additional annuity have been already shewn in the 11th and 12th articles of the second

[37]

cause the annuity would be at all events cacreased; so that the fall must necessarily be less than it would otherwise be. If, for instance, the value of 1001. of 3 per cent. flock should rife to 721. the value of 661. of the 5 per cent. stock would rife likewife to 721.+ But, should the value of 100% of 3 per cents fall to 60%. the value of 661. of the 5 per cents would fall only to about 661. We may, therefore, fafely conclude, that, in the state of the market here supposed, this first class of the Public Creditors, who regard the value of the capital more than the interest or annuity, and who would prefer a reaionable profit in hand, rather than run the uncertain chance of gaining or lofing at a diftant day, would gladly accept the offer here mentioned; and, so far, the debt would be converted. A like kind of reasoning would likewise hold equally true in any other state of the market.

6. We come, in the next place, to consider the second general class of the Public Creditors; viz. those to whom the value of the Capital, and the Annuity or Interest are of equal consequence. This class comprehends all those who have not an immediate occasion for their capital, but who must necessarily have occasion for it at some C 2

[§] In the state of the market above supposed, 85½/. of the new 5 per cent. stock might be given in exchange for 1001. of the present 4 per cents:—The proposed new 5 per cents might be given, even-handed, for the present 5 per cents; in which case the annuity would be the same as at present, and the terms of redemption only would be altered from a contingent to a regular principle: 1001. of the new 5 per cent. stock might likewise be given for each 51. of the long annuity, and 681, of the new 5 per cent. flock for each 51. of the short annuity, to such of the Annuitants as might wish to convert them. Indeed, a little more than is here mentioned might, without impropriety, be given, by way of encouragement, for the conversion, The propriety of converting temporary annuities into redeemable ones has been well observed by Mr. Sinclair, in the 4th and 5th chapters of the second part of his History of the Revenue.

[†] The calculative reader will observe, from the table page 35, that, if 100l. of per cent. stock should be worth 80l. the value of 66l. of 5 per cent. stock would be only 75½l. But, in the abovementioned state of the market, 66l. of 5 per cents would, nevertheless, be far preferable to 100l. of 3 per cents. The chance of the 3 per cents rising to 80l. would be so very improbable, that no rational man would forego a present profit for such a chance. The chance of their falling to 60l, would be much greater than the chance of their rising to 80l.

This fecond class of the Public Creditors would be benefited, equally with the former class, by the additional Annuity or Interest to be granted for the conversion; and by the additional security (viz. the fecurity of the value of the Capital from depreciation) which would be thereby produced: but the tender to be periodically made towards the redemption of the capital would be inconvenient to them. In order to remedy this inconveniency, it is necessary that the tender should be liable to a suspension, on certain reasonable conditions:-And, as fundry people who at one time may form a part of the first class, may, at a future time retire from business, and form a part of the second class; and, vice versa; it is necessary that this suspension of the tender should be always allowed to any Creditor that shall claim it: or, in other words, that any Creditor should be at liberty to refuse the tender, on certain stipulated conditions. It is necessary, however, to be exceedingly careful, that the conditions, thus to be stipulated for the suspension of the tender, be such, as to be entirely incapable of being perverted by speculations, into a contravention of the plan or general design of gradually diminishing the Debt by a fair and equitable discharge of the Capital.

7. The general principle of the plan, it has been repeatedly observed, is,—That the Creditors respectively, be periodically liable to receive, if sendered, towards the redemption of the Capital

[39]

pital, a fum equal to the Interest or Annuity that shall be by them periodically demandable.

Now, it would not derogate materially from this principle, if the Creditors to whom a periodical tender should happen to be inconvenient, were to be at liberty to refuse the tender, during any term of time in which the fum total of the periodical Annuities should not exceed the Capital; on condition, that when the tender should cease to be inconvenient to them (which would of course be the case when they should come to have occasion to fell out) their capital should be liable to a tender equal to the sum total of the Annuities that had been received during the time that the tender had been so resused: -And, in case they should refuse the tender for so long a time, as that the sum total of the Annuities by them periodically received, should become equal to the Capital, they should then be liable to a tender of the whole Capital. By this stipulation, any Creditor, to whom the periodical tender might be inconvenient, would have it in his power to render his Capital irredeemable during any term of time that he might wish, not exceeding the time in which the periodical Annuities should become equal to the Capital (which, it is imagined, would be long enough to fave the general purposes of conveniency+), with-

If the principle here proposed for the suspension of the tender, should not be sufficient to provide for the conveniencies of any particular cases, it might be varied so as to suit any possible case whatever, whether for years, or lives, by giving and receiving a reasonable equivalent, according to the nature of the case: But of this, more hereafter.

out any material interruption of the general design of gradually diminishing the Debt by a periodi-

cal redemption.

But although a suspension of the periodical tender, on the above condition, would not derogate materially from the general defign, in case it should be made use of for conveniencies only; yet, if a great proportion of the Creditors should, from speculative motives, refuse the tender, until they had received in annuities a sum equal to their Capital, the general design of a periodical redemption would, in fuch case, be evidently obstructed:—it is necessary, therefore, that all speculative motives for suspending the tender should be excluded. And in order to exclude these speculative motives, it is necessary that the sufpension of the tender should be attended with a further condition, in addition to the above, whereby it shall be of the two, more advantageous, with respect to pecuniary profit, to receive the tender periodically, although it should be laid out again immediately in the stocks, than to refuse it. This may be very easily effected by stipulating further, that those who refuse the periodical tender, shall, so long as they shall so continue to refuse it, relinquish a part (say about baif) of the additional annuity granted for the conversion*.

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41]

8. To make these observations plain by an example,—Let it be supposed, that the state of the market, and the terms offered for the conversion of the Debt, be the same as mentioned in the aforegoing 5th Article. In this case, the Creditors who fubscribe to the conversion, would receive an additional annuity of two shillings in the round, as was explained in the faid 5th Article; and would, according to the general principle of the plan, be liable to a tender of 5 per cent. per ann. on their capital, towards its redemption. But as this periodical tender may be inconvenient to fundry of the Creditors, it is further proposed, as a part of the plan, (agreeable to Articles 6 and 7) that any of the Creditors shall be at liberty to refuse the tender from time to time, during any term not exceeding twenty years; on condition, that their capital shall, afterwards, be liable to a tender of 5 per cent. for each year that the periodical tender shall have been so refused; and that their annuity shall be liable to a deduction of one shilling in the pound, (which is only a part of the aforesaid additional annuity granted for the conversion), during the time that the periodical tender shall be so refused . A Creditor, for instance, who now holds 1000l. of 3 per per cent. stock, and receives thereon an Annual Interest of 301. will,

Because, in twenty years, 5 per cent. per ann. on any capital, becomes equal to that capital.

^{*} This stipulation would be perfectly consistent with every idea of reason, equity and justice:—For, as the additional annuity granted for the conversion of the Debt, is given solely for the purpose of putting the Debt into a capacity for a periodical redemption; so long as any Creditor shall, for his own conveniency, suspend or resuse such periodical redemption, so long he certainly ought to relinquish at least a part of the additional annuity that had been given for it.

[‡] If the tender be not offered, it cannot be faid to be refused; in such case therefore, there would be no deduction from the annuity. But, in the case above supposed, there is no doubt but the tender would be offered; because, any deficiency that there might be in the Revenue, might, with advantage, be obtained in the market; as was observed in the 14th Article of the second Section.

by subscribing to the conversion, hold 6601. of 5 per cent. stock*; and will receive thereon an Annual Interest of 331. in case he be willing to receive a further fum of 331. towards the redemption of the capital: But, if he be unwilling to receive fuch further fum towards the redemption of the Capital, he may refuse it as long as he pleases, not exceeding twenty years; and in such case, he will receive an Annual Interest of 311. 7s. + instead of the 301. which he now receives.

9. The advantages, therefore, that this fecond class of the public Creditors, who refuse the periodical tender, will derive from the conversion of

the Debt, will be,

First, An additional annuity of 11. 7s. on every 301. (or on every 10001. of 3 per cent. stock so converted) and so in proportion, to continue twenty years; which is equal in value to rather more than 40%, payable at the end of that Term;

Secondly, A security of the value of the capital from depreciation; for the redemption that will be made periodically to the first class of the Public Creditors, will effectually preserve (and more than preserve) the value of the new stock from-depreciating: -- so that, at the end of the twenty years, the Creditor who subscribes 1000%. of 3 per cent. stock in exchange for 660l. of 5 per cent. stock, will receive 660l. for its redemption; which, with the above mentioned 40l. makes 700l. that is, (exclusive of the present Interest) 701. for every 1001. of 3 per cent. stock so converted.

That is, 331. deducting one-shilling in the pound,

43

Now, whoever confiders the depreciations to which our public stocks, in their present state, are naturally subject; of which the depreciations that have actually taken place during these last thirty years, are ample and incontestable proofs; Whoever confiders that nothing but a gradual redemption can prevent these depreciations; and, that this gradual redemption cannot (for the reasons contained in the 5th and 6th Articles of the aforegoing Section) be carried into effect without a previous conversion of the Debt:-Whoever, I fay, considers these things, must be convinced, that if the Debt should remain unconverted, there would be the greatest reason in the world to expect the value of our 3 per cents to fall down to sol. or even lower, within twenty years, instead of being supported, as above mentioned, at 701. We may therefore, safely conclude, that, in the state of the market above supposed, every rational Creditor, who expects hereafter to have occasion for his Capital, and who has therefore an equal regard for the value of bis Capital, as for the Interest or Annuity, which is the case with this fecond class, would gladly subscribe to the conversion of the Debt on the terms above proposed. And a like kind of reasoning would hold equally true in any other state of the market.

10. The third general class comprehends those of the Public Creditors to whom the value of the Capital is of less consequence than the interest or annuity; and must of course consist, principally, of people who never expect to have occasion for their capital. To people who never expect to have occasion for their capital, it would be, indeed, a matter of but little consequence whether the value of fuch capital should be higher or lower,

provided

^{*} That is, 661, of 5 per cents for every 1001, of 3 per cents, as mentioned in the 5th Article.

provided the annuity or interest was sufficiently fecured, and regularly paid. But here, a question naturally arises, Can the interest be sufficiently fecure, if the value of the capital be not supported? Whoever confiders this question with attention, will answer, it certainly cannot. Many people, therefore, to whom the annuity or interest might thus be of more consequence than the value of the capital. would be glad to cooperate in fuch measures as may be found necessary for supporting the value of their capitals from depreciation. A fall in the value of the stocks cannot but be a very unpleasant circumstance to the Stock-holder, whether he expects to fell out or not. Many would naturally confider within themselves, that, although they may not at present foresee any occasion they may have for their capital, yet, such occasion may nevertheless happen hereaster. Many others would reason (and they would certainly reason very justly) that the same causes that shall produce a depreciation in the value of the capital will, in the nature of things, render the annuity or interest less secure. If the taxes, that are from time to time appropriated to the payment of the interest of the debt, shall remain unredeemed, it must be evident to every one, that, by encreasing the debt time after time, the ordinary fources of taxation must, necessarily, become exhausted; and a tax on the annuities must then become unavoidable. Those who reason thus, would, it may naturally be prefumed, cheerfully co-operate in such measures as may be found necessary for the gradual redemption or diminution of the debt; because, thereby alone can the wished-for fecurity, either of the capital, or of the annuity,

[45]

be obtained. By accepting the terms above proposed for the conversion of the debt, the capital will be (as far as human things are capable) fecured from depreciation. The annuity also, which is the principal object of this class of the Public Creditors, will not only be fecured, but encreased: and, it will be irredeemable for any term of time, at the pleasure of the creditor, not exceeding twenty years, which is certainly as long as many people, even of this class, would want it to be irredeemable.* We may therefore fafely conclude, that, although there might, and would, without doubt, be fundry exceptions, that may not be sufficiently provided for by the terms above laid down; yet the aforegoing terms would certainly provide for the conveniences of, and would be very readily accepted by, a very great part of this third class of the Public Creditors, as well as by the former classes.

the aforegoing principles and observations may be prattically liable to, among particular parts of the Public Creditors, and by what additional measures those exceptions may be provided for.

All annuities must evidently be, in their nature, either redeemable or irredeemable: all the exceptions therefore, however few, or however many they

^{*} If any of the creditors should, on particular occafions, wish to make it irredeemable for a longer time, it
might be easily done, by subjecting the annuity to a proportionate deduction, whereby to draw back a proportionate part of the additional annuity granted for the conversion. But, in the state of the market above supposed, a longer suspension of the tender would not be consistent with the general interests either of the public or of
the creditors

they may be, must necessarily relate to people who would prefer irredeemable annuities, or, in other words, annuities that should never be redeemable but at their own option, rather than the aforementioned redeemable ones.

Again, All irredeemable annuities must evidently be either of a perpetual, or else of a temporary nature; all the exceptions therefore that can take place must relate to people that would prefer being either perpetual annuitants, or temporary annuitants.

12. There cannot, it is imagined, be many, if any, individuals, that would prefer a perpetual irredeemable annuity, rather than a redeemable one that would naturally be attended with a greater immediate advantage, as well as a greater fecurity of its being punctually discharged. Wherever it shall become necessary, from time to time, to incur large debts, nothing but a regular attention to the redemption of them, can, in the nature of things, render them fecure. The circumstance, therefore, of their being perpetually irredeemable, is inconfistent with their security. Besides, annuities (however effectually secured) are matters of conveniency only; they are not things that give weight and consequence to families. A land estate of a single thousand pounds a year, would, probably, give more weight and consequence to a family, than an annuity of treble that sum would do. Those individuals, therefore, that would wish to make a perpetual provision for their family, would choose landed property, and not irredeemable annuities, even if we could suppose (what cannot, in the nature of things, be supposed) that perpetual irredeemable annuities should be equally as fecure as landed property.

3. But,

47

213. But, although perpetual irredeemable and nuities would not be confistent with the views and interests of individuals, or of families; yet, if fuch annuities could be effectually fecured, they would appear, at first fight, to be exceedingly suitable and convenient for certain corporations that never die, particularly such as are established for charitable purposes; as hospitals, and other charitable afylums. Corporations of this fort, there can be no doubt, have, and always will have. large fums in our public flocks; and it therefore becomes necessary to enquire how far the conveniencies of this branch of the Public Creditors may be fufficiently provided for, by the principles already laid down; and what further provisions may be added, if necessary, in order to meet their conveniencies in a still greater extent.

It must, as has been repeatedly observed already, be evident to every body, that nothing but a regular attention to the redemption of a Public Debt can keep it within reasonable bounds, or render it secure; and, so far as it shall be rendered irredeemable, so far this necessary attention must, evidently, be lessened. It would not, indeed, be materially detrimental in the great scale, if a *small* proportion of the debt should be rendered irredeemable for ever so long a time; but should a very large proportion of it be irredeemable, generation after generation, it is easy to see that the consequence must be fatal, as well to the Creditors as to the Public. It cannot, therefore, be reasonably imagined, that any people, whether corporations or others, who shall be fully fatisfied of the absolute and indispensible necessity of a redemption, would ever wish for annuities that should

49]

the precious metals shall decrease, so, of course, the value of an annuity, payable in those precious metals, must decrease also. If a perpetual annuity be purchased in an age when the general value of a pound of bread and a pound of meat be a penny, such annuity will have lost one half of its real value, when (by the encrease of gold and filver) the general value of a pound of bread and a pound of meat shall become two-pence. But, if instead of purchasing a perpetual annuity, an estate in land should be purchased, this loss would be avoided, because, the rent or annuity flowing from such estate would naturally encrease, from time to time, as the value of the bread and meat which it produces should become encreased; or, in other words, as the value of the precious metals should become decreased. On every consideration, therefore, perpetual irredeemable annuities are inconfistent with the interests of all ranks and denominations of men; and LAND is the only kind of Property wherewith to establish a permanent provision for any very great length of time.

From these Observations we may safely conclude, that, so far as Corporations (which compose the particular branch of the Public Creditors now under consideration) shall have a very large Capital beyond what they expect to have occasion for, and with which they would therefore wish to establish a perpetual Annual Provision, they would naturally, when opportunity might offer, lay it out in land for that purpose.* As a temporary

^{*} A great part of our annuities are irredeemable, in their present state, unless Government should choose to pay 1001. although it had received less than 601. as was mentioned in the 6th article of the aforegoing second section. In their present state, therefore, no reasonable man can think them more secure than if they were actually irredeemable for ever. It would be absurd to suppose that any nation should tax herself in order to effect a redemption at so preposerous a rate.

^{*} If our Statutes of Mortmain should stand in the way, the difficulty might be very easily removed, by a new Act of Parliament granting such further latitude for the Purchase of Real Estates, as the nature of the present Case might

porary conveniency, indeed, they would naturally keep it in the Stocks until a fuitable opportunity might offer for vesting it in landed property; and they would naturally choose to keep such Capital entire, by having it irredeemable, while they might so keep it in the Stocks. By the Provisions already laid down in the aforegoing Articles, they would be at liberty to render it irredeemable, during any term of time (as their own pleasure or conveniency might from time to time direct) not exceeding Twenty Years. This, one would imagine, would be a sufficient length of time for the purpose intended, with respect to this part of their Capital.

Such part of the Capital of this branch of the public Creditors as they might expect, in probability, to have a temporary occasion for, they would naturally choose to keep in the Stocks, on account of the ease and readiness with which it might be turned into Money, whenever such occasion might happen; and they would probably choose to have this part irredeemable, until they should so happen to have occasion for it. But, one would imagine, that the aforementioned term of Twenty Years would be sufficiently long for all convenient purposes with respect to this part of their Capital; for it may be observed, that, at the expiration of the Twenty Years, supposing the Capital to be then redeemed, it might, if not otherwise wanted, be re-vested in the Stocks, and would then become irredeemable

might be found to require. But it is most probable that the general preference, hereafter to be proposed in the 10th Article, for the advantage of the Proprietors of the new Stock, with respect to Subscriptions for new Loans, will render any alteration in the Laws of Mortmain unnecessary.

irredeemable again for any term of time not exceeding another Twenty Years; and so on, from Twenty Years to Twenty Years, as long as might be found convenient. It cannot, it is imagined, be seriously objected, that the Debt may in time become reduced to so small a Quantity as to be insufficient for these purposes. We have, alas! such an ample Provision of Debt before-hand, and may so expect the encreasing it in Times of War, as effectually to exclude all apprehensions of its being reduced to too small a fize, however attentive we may be to its Redemption. On the whole, it is imagined that the Terms already proposed would be perfectly acceptable to this branch of the Public Creditors.

14. The Second Head of Exceptions, to wit, People who might defire Temporary Annui-

ties, remains to be confidered.

In every Nation there must, in the nature of things, be numbers of people whose conveniencies would be better fuited by an Annuity during their Lives, than by any other Provision. Some people, likewise, who may have the Reversion or Remainder of an Estate, might be glad of an Annuity during the Life of the present Posfessor, or during a certain number of Years, as the case might be, until such Estate should come into their hands. One would not, indeed, imagine that the people, by whom these Temporary Annuities would be preferred, can form any very great Proportion of the National Creditors; but whether they might form a greater or a smaller part, it would be highly proper that their Conveniencies should be suited. Were Annuities for Lives or Years to be regularly attainable, in exchange for the Stocks, by all fuch of the Proin Exchange for their Stock.

A Provision of this kind would be a matter of great conveniency to numbers of people, without being productive of the least difficulty or inconveniency to any. It would, indeed, be a matter of general Benefit to the State, as well as to the Individuals whose conveniencies were thereby suited; because it would naturally bring Monies into that channel of circulation that would not otherwise be brought thither. And, were this Privilege granted only to the Holders or Proprietors of the proposed new Stock, sundry people would, very probably, be induced to subscribe to the conversion, who might otherwise be indifferent about it.

15. It is therefore proposed, as a part of the Plan, in addition to the Principles already laid down, that any Stock-holder or Creditor shall be at liberty, from time to time, and at all times, to transcribe or change all or any part of his or her Capital or Share in the new 5 per Cent. Stock proposed to be established, into an Annuity during his or her Life; or during the Life of any other Person or Persons to be named; or during such number of Years certain, as his or her conveniency shall require. And also, that any Annuitant for Years, or for Life, (being in good Health)

[53]

Health) shall be at liberty, from time to time, and at all times, to transcribe or change his or her Annuity into the said new Redeemable Stock: the Rates of such Transcriptions, or Exchanges, to be regulated and computed according to approved Tables (to be calculated for that purpose) of the comparative Values of the Annuities so to be transcribed or exchanged.* Thus the conveniencies of all those, whose situations and circumstances might, at any time, be such as to require Annuities for Lives, or Years, would be effectually provided for.

16. It cannot but be fufficiently evident to all that shall peruse the aforegoing Observations with attention, that by the above proposed conversion of the Debt, both the Property of the Creditors,

and

^{*} The liberty of transcribing redeemable Annuities into temporary ones, is intended only for the purpose of suiting the conveniencies of People in particular situations and circumstances. Redeemable Annuities (on the Principles of Redemption herein before laid down) are much better than Temporary ones, both for the Creditors in general, and also for the Public. On this account, the further liberty proposed above, for transcribing temporary Annuities into redeemable ones, is perfectly proper. On this account also it is necessary, in the calculating of the Tables of the comparative Values, that the temporary Annuities should not be extended beyond a convenient length of Time; and that the turn of the Scale should be in favour of the redeemable Annuities. Every Transcription of this kind (after the expiration of a certain Time necessary to be allowed for the general Transcription or Conversion of the Debt) ought likewise to be attended with a regular established Fee, in proportion to the Quantity to be transcribed; whereby to confine the Transcriptions to cases of actual conveniency only; and to prevent whimfical Transcriptions that might be founded on Motives of mere Speculation.

and the means of Redemption by the Public, would be in an infinitely better State than at present; nor does it seem easy to imagine many cases, among the whole diversity of the Public Creditors, but what would be effectually and conveniently suited, under some one or other of the aforegoing Propositions. We may, however, with the utmost ease and propriety, and with a mutual benefit and advantage to the Creditors and to the Public, give a further general encouragement for the proposed conversion of the Debt, by granting a preference, in all new Loans, to the Holders or Proprietors of the new Stock. Such a preference would be a matter of much Consequence to the great Stock-holders (among whom, Corporations, that were the subject of the aforegoing 13th Article, may form a confiderable part), and would, it is imagined, induce them to subscribe to the conversion of the Debt with great alacrity. It is therefore further proposed, that in all new Loans that may hereafter be made, the Subscriptions of the Proprietors of the new Stocks shall be preferred before the Subscriptions of any other Person or Persons whomsoever; such Preference to be proportionate to the quantity of the faid new Stock which the Subscribers shall respectively hold, at the time of their subscribing to such new Loan. This Preference

[55]

ference would be attended with much good confequence to the Public as well as to the Stockholder: It would prevent the locking up of Money on speculation, and contribute to raise the Value of the Stocks in time of War; because, all those who should wish to share in the advantages of any new Loan, must (if they have not got it before) purchase Stock in proportion.

17. Having gone through the necessary considerations, respecting the conveniencies and advantages of the Public, and of the different branches of the Public Creditors; it remains only to put the proposed Plan together, by summing up its different Parts, as follows: viz.

First, That, in order to put the Public Debts of the Nation into a regular and equitable course of redemption, for the mutual benefit and advantage of the Creditors and of the Public; the several and respective Proprietors of all or any of the Public Stocks or Annuities, of which the Debts of the Nation are composed, shall (from and after the day of until the

day of inclusive) be at liberty to transcribe or convert all, or any part, of their several and respective Rights, Interests, or Shares, in all or any of the said Public Stocks or Annuities, into a new Five per Cent. Stock; according to the several and respective Rates, Principles, Limitations, and Conditions, herein-after mentioned; that is to say:

The cases of Stocks that may be in the care of Guardians or Trustees, cannot be considered as exceptions from this observation; because, they would be comprehended in it, if Parliament should grant to such Guardians or Trustees the necessary powers to convert. Such an Ast might be very proper, particularly if there should be much of the Debt in that situation.

[56]

For every 100% of the present

3 per Cent. Stocks (and so
in proportion for any greater
or lesser quantity) so to be
transcribed, the Transcriber
shall be entitled to

£66 (more or less, as may
be thought proper)
of the new Five per
Cent. Stock.

For every 100l. of the present
4 per Cent. Stock - £85½ (more or less) do. do.

For every 1001. of the present 5 per Cent. Stock - £100 (more or less) do. do.*

For every 51. of the present Long Annuity - - £100 (more or less) do. do.*

For every 5l. of the present Short Annuities of 1778 and 1779 - - - £68 (more or less) do. do.*

Secondly.

57

Secondly, That, in order to remove any apprehensions that might otherwise be entertained of a Reduction of the Interest on the new Five per Cent. Stock; the said Stock shall be secured against a Reduction of the Interest, by being liable only to a limited tender for the periodical Redemption of the Capital, equal to the Annuity or Interest therefrom periodically flowing: And each Proprietor, respectively, shall be liable only to receive, periodically, towards the Redemption of his or her Capital, a sum equal to the Interest that shall be by him or her periodically demandable.

Thirdly, That, in order to fuit the conveniencies of all those of the Public Creditors, to whom a periodical tender for the Redemption of the Capital may,

Creditors may be put) to give a turn of the scale to the present 5 per Cent. holders, and to the long and short Annuitants, it may be very easily done by giving them a little more of the new Stock than is above proposed. National Generosity, and, perhaps, good Policy, might agree with this; particularly as the new Stock will be subject to a deduction from the Interest, if the tender be refused: it could not, however, be considered as a Premium absolutely necessary; because the new 5 per Cents must be, in their very nature, more valuable than the present 5 per Cents, on account of the difference in their principles of redemption; and the market value of the long and short Annuities is not greater than the market value of the above proportions of the present 5 per Cents. The propriety of converting temporary Annuities into redeemable ones, fufficiently appears from Mr. Sinclair's History of the Revenue, part 2. chapters iv. and v.

The Interest or Annuity on the new Stock may be made payable at the same times that the respective Annuities to be transcribed are now payable; in which case the new Stock will be composed of two parts, viz. New 5 per Cents of January and July; and New 5 per Cents of April and October. If the Revenue was equally productive in each quarter, it would be best to have the Interest on the New Stock payable quarterly; but as that is not the case, the above may perhaps be best. Any defired arrangement of this kind may, however, be very easily made.

^{*} If it should be thought proper (on account of the incidental Expences of Transcription, to which some of the Creditors

at any time, be inconvenient; any Creditor or Proprietor of the said new Five Cent. Stock, shall, from time to time, and at all times, be at liberty to refuse the said periodical tender (and thereby render his or her Capital irredeemable) for and during any term of time, at his or her pleasure, not exceeding Twenty Years: Provided always, that his or her Capital shall, afterwards, be liable to a tender of Five per Cent. for each Year that the said periodical Tender shall have been so refused. And provided also, that his or her Annuity or Interest on the said Capital, shall be liable to a deduction of One Shilling in the Pound, to during the time that the said periodical Tender shall be so refused.

Fourthly. That, in order to suit the conveniencies of all those whose situations and circumstances shall or may be such as to require Annuities for Lives or for Years, any Creditor, or Proprietor of the said new Five per Cent. Stock, shall, from time to time, and at all times, be at liberty to transcribe or change all or any part of his or her Capital in the said new Five per Cent. Stock, into such Annuities for Lives, or for Years, as his or her conveniencies shall, or may, from time to time, require: And any Annuitant for

The Propriety, Equity, and Justice, of this Deduction have been shewn in the latter part of the aforegoing 7th Article, and its Note, pages 39 and 40.

[59]

for Years, or for Life (being in good health), shall likewise be at liberty from time to time, and at all times, as his or her conveniencies shall require, to transcribe or change his or her Annuity into the said 5 per Cent. Stock: The rates of such Transcriptions, or Exchanges, to be regulated and computed according to approved Tables; of the comparative Values of the Annuities so to be transcribed or exchanged.

Lastly. That, in order to give a further general Encouragement for the proposed conversion of the Debt into the faid new 5 per Cent. Stock, the Proprietors of the faid new Stock shall have the following Preference in all new Loans:—That is to fay, the Subscriptions of the Proprietors of the faid new Stock, towards any new Loan that shall or may hereafter be made, shall be preferred before the Subscription of any other person or persons whomsoever: Such Preference to be proportionate to the Quantity of the faid new Stock which the Subscribers shall respectively hold at the time of their subscribing to fuch new Loan; and the Proprietors of the additional new Stock that shall be established for such new Loan, to be entitled to a like Proportion of fuch Preference in all future Loans.

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^{*} See the Note to the aforegoing 15th Article, p. 53.

† These Tables should be annexed to (and made part of) the Proposal.

[60]

The carrying of this conversion of the Debt into effect would be peculiarly easy: It would require but little more than a general Offer, or Publication, of the Proposal, by Authority; with a Notification that Books were open at the Bank to receive the Transcriptions. And thus, it is humbly imagined, the Debt would be speedily converted, to the very great and mutual advantage both of the Public and of the Creditors.

The carrying of the conversion of the Debt into effect, would, I say, require but little more than a public Offer of the Terms proposed. But what this little is, has not been mentioned. The Observations that have been laid down, will, it is humbly hoped, sufficiently evince the equal Utility and Practicability of the Plan. The little Remainder that has not been mentioned, may, in possibility, be discovered by the studious Reader. The Discovery of it is, however, rather improbable, unless the subject should be re-taken up as far back as the Postulata in the second Section of the first Essay; and pursued from thence with an immensity of Labour, through Paths that I have purposely passed by in filence.—Should this little Remainder be unattended to, it must infallibly produce an unnecessary (and easily avoidable) Loss of some few Millions,—Its Explanation is reserved (as was mentioned in the Introduction) in humble Hope, that, as the Labour in the Investigation of this important Subject has been exceedingly great, the Labourer may not, amidst a Variety of other Considerations, be entirely forgotten.