## Class XII Economics (030) Sample Question Paper 2018-19

MM: 80 Time Allowed: 3 hours

## **General Instructions:**

- i. All questions in both sections are compulsory. However, there is internal choice in some questions.
- ii. Marks for questions are indicated against each question.
- iii. Question No.1-4 and 13-16 are very short answer questions carrying 1 mark each. They are required to be answered in one sentence.
- iv. Question No.5-6 and 17-18 are short answer questions carrying 3 marks each. Answers to them should not normally exceed 60 words each.
- v. Question No.7-9 and 19-21 are also short answer questions carrying 4 marks each. Answers to them should not normally exceed 70 words each.
- vi. Question No.10-12 and 22-24 are long answer questions carrying 6 marks each. Answers to them should not normally exceed 100 words each
- vii. Answers should be brief and to the point and the above word limit be adhered to as far as possible.

	SECTION A – MICROECONOMICS	
1	State the reason why Total Variable Cost (TVC) curve and Total Cost (TC) curve are parallel to each other.	1
	Or	
	State the reason behind U-shape nature of Average Variable Cost curve.	
2	If the Total Revenue of a firm increases by ₹ 45,000 due to an increase in sale of Good X from 50 units to 65 units, then marginal revenue will be ₹?	1
3	A Production Possibility Curve would be	1
4	Which of the following is a variable cost?  a) Salary of permanent staff c) licence fees b) rent of premises d) wages	1
	Or	
	If Total Variable Cost and Total Fixed Cost of producing 10 units are ₹500 & ₹200, the value of average cost would be?  a) 50 b) 70 c) 20 d) 80	
5	Distinguish between Normative Economics and Positive Economics, with suitable examples.	3
	Or	
	Why do central problems arise? Discuss briefly.	
6	Mr. Atal Singh is consuming two goods X and Y. If he is facing a situation of $\frac{MU_X}{P_X} > \frac{MU_Y}{P_Y}$ , discuss how would he reach the level of equilibrium.	3

	Calculate and comm from ₹ 10 to ₹ 12,		price elasticity of delanded falls by 40%		•		
			Or				
	'As the price of a good increase in quantity answer.		•	•			
8	Complete the follow	ring production so	chedule:				
	Units of variable	Total Physical	Average	Marginal		4	
	input	Product	Physical Product	Physical			
		(units)	(units)	Products (units)			
	1	10	10				
	2		11	12			
	3			8			
	4	35					
	5			-5			
						_	
9	Elaborate the price of	discrimination fea	ture of monopoly.			4	
			Or				
	Why number of firm	Why number of firms is limited in an oligopoly market? Explain.					
10						1	
10	marginal rat behaviour.	e of substitution	othetical numerica n under the ordir	l example the assunal apporach of t	mption of diminishing theory of consumer's umer's equilibrium?	4	
	marginal rat behaviour. b) Why should r Suppose the market a) increase in m	marginal rate of s for Good X is in e	nothetical numerica n under the ordin ubsititution diminis equilibrium. Explain less than the decre	I example the assumal apporach of the chain effect, if ase in market supp	theory of consumer's umer's equilibrium?		
	marginal rat behaviour. b) Why should r Suppose the market a) increase in m	marginal rate of s for Good X is in e	oothetical numerica n under the ordir ubsititution diminis equilibrium. Explain	I example the assumal apporach of the chain effect, if ase in market supp	theory of consumer's umer's equilibrium?	2	
	marginal rat behaviour. b) Why should r Suppose the market a) increase in m	marginal rate of s for Good X is in e narket demand is narket demand is	oothetical numerica n under the ordin ubsititution diminis equilibrium. Explain less than the decre more than the incre	I example the assumal apporach of the chain effect, if ase in market suppease in market s	theory of consumer's umer's equilibrium?	2	
11	marginal rate behaviour. b) Why should response the market a) increase in metabolic increase in metabolic fall in own present and fall in own present and behaviour.	marginal rate of s for Good X is in e narket demand is narket demand is	nothetical numerica n under the ordin ubsititution diminis equilibrium. Explain less than the decre more than the incre	I example the assumal apporach of the chain effect, if ase in market suppease in market s	theory of consumer's umer's equilibrium?	6	
11	marginal rate behaviour. b) Why should response the market a) increase in metabolic increase in metabolic fall in own present and fall in own present and behaviour.	marginal rate of some for Good X is in entert demand is narket demand is of the following of the following of the following coice of Good X.	nothetical numerica n under the ordin ubsititution diminis equilibrium. Explain less than the decre more than the incre	I example the assumal apporach of the chain effect, if ase in market suppease in market s	theory of consumer's umer's equilibrium?	6	
11	marginal rate behaviour. b) Why should response the market a) increase in market b) increase in market Examine the effects a) fall in own prob) rise in price of	marginal rate of some for Good X is in enarket demand is narket demand is of the following	nothetical numerical numerical number the ordinubsititution diministration diministration diministration diministration diministration diministration the decreptor on the supply curve orducing Good X.  Or  cuss briefly, the	I example the assumal apporach of the chain effect, if ase in market supporace in market supports of a Good X, using conditions of present as the conditions of present as the chain effect, if as a conditions of present approach to the chain effect, if as a condition of the conditions of the chain effect, if as a condition of the chain effect, if a condition of the chain effect, if as a condition of the chain effect, if a condition effect, if a cond	theory of consumer's umer's equilibrium?  : bly. ply. suitable diagram:	6	
11	marginal rate behaviour. b) Why should results a suppose the market a increase in means in means a fall in own problems b rise in price of the producer's	marginal rate of some for Good X is in enarket demand is narket demand is of the following	nothetical numerical numerical number the ordinubsititution diministration diministration diministration diministration diministration diministration the decreptor on the supply curve orducing Good X.  Or  cuss briefly, the	I example the assumal apporach of the chain effect, if ase in market supporace in market support of a Good X, using conditions of prod by lowering the	theory of consumer's umer's equilibrium?  : bly. ply. suitable diagram:	6	
11 12 13	marginal rate behaviour. b) Why should results a suppose the market a increase in means in means a fall in own problems b rise in price of the producer's	marginal rate of some for Good X is in enarket demand is narket demand is of the following of the following of factor input processor of good X.  Equilibrium. Distroducer can sell in SECTION	othetical numerican under the ordinubsititution diministration diministration diministration. Explain less than the decrement than the increment on the supply curve oducing Good X.  Or  cuss briefly, the more units of the good MACROECO	I example the assumal apporach of the chain effect, if ase in market supposes in market supposes in market supposes of a Good X, using conditions of prod by lowering the NOMICS	theory of consumer's umer's equilibrium?  theory of consumer's umer's equilibrium?  theory of consumer's equilibrium?  theory of consumer's equilibrium?  theory of consumer's equilibrium?	6	
11 12	marginal rat behaviour. b) Why should rate along the market along increase in market along incre	marginal rate of s for Good X is in enarket demand is market demand is market demand is more of Good X.  of factor input pro Equilibrium. Dis roducer can sell in  SECTION	othetical numerican under the ordinubsititution diministration diministration diministration. Explain less than the decrement than the increment on the supply curve oducing Good X.  Or  cuss briefly, the more units of the good MACROECO	I example the assumal apporach of the chain effect, if ase in market supposes in market supposes in market supposes of a Good X, using conditions of prod by lowering the NOMICS	theory of consumer's umer's equilibrium?  theory of consumer's umer's equilibrium?  theory of consumer's equilibrium?  theory of consumer's equilibrium?  theory of consumer's equilibrium?	6	
112	marginal rate behaviour. b) Why should results a increase in me b) increase in me b) increase in me b) rise in price of the producer's assuming that the present the value of the color of the producer's assuming that the present the color of the producer's assuming that the present	marginal rate of s for Good X is in enarket demand is market demand is market demand is more of Good X.  of factor input pro Equilibrium. Dis roducer can sell in  SECTION	othetical numerican under the ordinubsititution diministration diministration diministration. Explain less than the decrement than the increment on the supply curve oducing Good X.  Or  cuss briefly, the more units of the good MACROECO	I example the assumal apporach of the chain effect, if ase in market supposes in market supposes in market supposes of a Good X, using conditions of prod by lowering the NOMICS	theory of consumer's umer's equilibrium?  theory of consumer's umer's equilibrium?  theory of consumer's equilibrium?  theory of consumer's equilibrium?  theory of consumer's equilibrium?	6	

15	(choose the correct alternative) is a revenue receipt of the	1
	government.	
	a) Funds raised by the government by issuing National Saving Certificates	
	b) Sale of 40% shares of a public sector undertaking to a private enterprise	
	c) Profits of LIC, a public enterprise	
	d) Amount borrowed from Japan for construction of Bullet Train.	
16	Identify which of the following statements is true?	1
	<ul> <li>a) Fiscal deficit is difference between planned revenue expenditure and planned revenue receipts</li> </ul>	
	b) Fiscal deficit is difference between total planned expenditure and total planned receipts	
	c) Primary deficit is the difference between total planned receipt and interest payments.	
	d) Fiscal deficit is the sum of primary deficit and interest payment.	
17	Estimate the value of Aggregate Demand in an economy if:	3
	a) Autonomous Investment (I) = ₹100 Crore.	
	b) Marginal Propensity to Save = 0.2	
	c) Level of Income (Y) = ₹4,000 crores.	
	d) Autonomous Consumption Expenditure (c) = ₹50 Crore	
	Or	
	In an economy C= 200+ 0.5 Y is the consumption function where C is the consumption	
	expenditure and Y is the national income. Investment expenditure is ₹ 400 crores. Is the	
	economy in equilibrium at an income level ₹ 1500 crores? Justify your answer.	
18	Explain how the level of effective demand is attained in an economy if, Aggregate Demand is	3
	more than the Aggregate Supply.	
19	What is meant by problem of double counting? How this problem can be avoided?	4
	Or	
	Discuss briefly, the circular flow of income in a two sector economy with the help of a suitable diagram.	
20	Elaborate 'economic growth' as objective of government budget.	4
21	How the following tools can be used for credit control by the central bank in an economy:  a) Open Market Operations b) Margin Requirements	4

		$\overline{}$
22	<ul> <li>a) State any two precautions that must be taken into consideration while estimating national income by value added method.</li> </ul>	2
	b) In an economy, following transactions took place. Calculate value of output and value added by Firm B:	4
	i. Firm A sold to firm B goods of ₹80 crore; to firm C ₹50 crore; to household ₹30 crore and goods of value ₹10 crore remains unsold	
	ii. Firm B sold to firm C goods of ₹ 70 crore; to firm D ₹ 40 crore; goods of value ₹ 30 crore were exported and goods of value ₹ 5 crore was sold to government.	
	Or	
	Differentiate between National Income at Current Prices and National Income at Constant Prices. Which of the two presents a better view of the economic growth of economy and why?	6
23	How an initial increase in investment affects the level of final income of the economy? Show its working with a suitable numerical example.	6
24	a) According to recent media reports:	3
	'USA has accused China of currency devaluation to promote its exports'.	
	In the light of the given media report comment, how exports can be promoted through the Currency devaluation?	
	b) What is meant by Current Account Deficit (CAD) and Current Account Surplus (CAS)? State their significance.	3

## Class XII Economics (030) Marking Scheme 2018-19

S.No		Section A	- Micro Economics	Marks	
1		Total fixed cost, which remains unchanged at all given levels of output, is the reason behind vertical parallel distance between TVC curve and TC curve.			
		O	)r		
	Law of \	/ariable Proportions			
2	₹	3,000		1	
3	a)	a straight line		1	
4	d) wage	S		1	
	b)		)r		
5	S.No.	Positive Economics	Normative Economics	3	
	1.	Positive economics deals with economic issues as they are. It is based on facts and actual data.	Normative economics deals with economic issues as they ought to be. It is based on opinions and is suggestive in nature.		
	2.	Positive statements are strictly neutral towards ends.	Normative statements can only be assessed relative to beliefs and value judgements.		
	3.	e.g. growth rate is 5%; industrial output grew by 3%.	e.g. The unemployment rate should be reduced		
		0	)r		
	Central problems are economic problems faced by each and every economy. They arise due to:  i) Scarcity of resources:- Human wants are unlimited and available resources in relation to same are scarce and limited.				
	ii) Alternate uses of resources:- Available resources can be put to multiple uses, hence, the				
	economy has to make a choice amongst alternative uses of available resources				
6	greater	than the marginal utility derived by spend	g one rupee on consumption of commodity X is ding one rupee on consumption of commodity Y.  In this greater than the satisfaction derived by	3	
	consum	ing Commodity Y.	nding more on commodity X, as he will consume		
	IVII. ALA	i singii wiii realiocate ilis liicoille by sper	iding more on commodity A, as he will consume	<u> </u>	

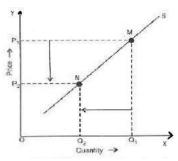
		rnate preposition o	•	consumption of commodity X this process will continue till $\frac{\text{MU}_X}{P_X}$	
7	Price electicity of do	mand (Ed) = percento	nge cha in quantity dema percentage change in price o	inded of the commodity	
				f the commodity	
	Percentage change i	n price = $\frac{12}{10}$ X 100	$0 = \frac{2}{10} \times 100 = 20\%$		
	Percentage change i	•			
	Price elasticity of de	mand (Ed) = $\frac{percenta}{p}$	ige chang in quantity dema percentage chang in price o	nded of the commodity  f the commodity	4
	$=\frac{40\%}{20\%}=2$				
	(minus sign i		represents the inverse rel	ation between price and quantity demanded.)	
	Ed = 2 (Ed > 1, Elasti	c demand)			
			Or		
	will able to purch	ase more units of	the given good with	of the consumer increases as he the same money income. This in reasons for negative slope of	
8					
	Variable input	Total Physical Product	Average Physical Product	Marginal Physical Products	4
	(in units)	(in units)	(in units)	(in units)	
	1	10	10	10	
	2	22	11	12	
	3	30	10	8	
	4	35 <b>30</b>	8.75	5	
	5	30	6	-5	
9	Price Discrimination	– is a situation wh	nere the monopolist char	ges different set of prices of the	
Э	commodity from did exercise this feature otherwise) from dif	ferent set of consu e by charging differ ferent consumers.	mers. Monopolist being rent prices (for the prod	ges different set of prices of the the only seller in the market can ucts which are homogeneous or ity distribution companies might users.	4
Э	commodity from did exercise this feature otherwise) from dif	ferent set of consu e by charging differ ferent consumers.	mers. Monopolist being rent prices (for the prod For example the electric	the only seller in the market can ucts which are homogeneous or ity distribution companies might	4
9	commodity from difference exercise this feature otherwise) from different price.  In an oligopoly mar	ferent set of consule by charging differ ferent consumers. Les from domestic a	mers. Monopolist being rent prices (for the prod For example the electric nd commercial electricity  Or	the only seller in the market can ucts which are homogeneous or ity distribution companies might	4
9	commodity from difference exercise this feature otherwise) from different price.  In an oligopoly mar barriers maybe:	ferent set of consule by charging differ ferent consumers. Les from domestic a	mers. Monopolist being rent prices (for the prod For example the electric nd commercial electricity  Or  s to entry' prevent new	the only seller in the market can ucts which are homogeneous or ity distribution companies might users.	4
9	commodity from difexercise this feature otherwise) from diferent price.  In an oligopoly mar barriers maybe:  i. Require	iferent set of consular by charging different consumers. Les from domestic a ket, certain 'barrier	mers. Monopolist being rent prices (for the prod For example the electric nd commercial electricity  Or  s to entry' prevent new	the only seller in the market can ucts which are homogeneous or ity distribution companies might users.	4

	iv. Control over impo	ortant raw material				
	These barriers may prevent a new firm to enter the oligopolistic market. Firms which are able to cross these barriers are able to enter the industry.					
10	<ul> <li>a) The assumption of diminishing marginal rate of substitution states that the consumer will be willing to sacrifice lesser units of GoodY,so as to gain additional unit of the Good X. This is an extention of law of diminishing marginal utility. Diminishingmarginal rate of substitution is the reason behind convexity of Indifference Curve to the origin.</li> <li>The following table shows, bundles of Good X and Y which provide same level of</li> </ul>					
	satisfaction to the consumer:		ou / turiu / trimon pro			
	Bundles	Units of Good X	Units of Good Y	MRS ( $^{\Delta y}/_{\Delta x}$ )		
	A	1	21	- <u>A</u> x		
	В	4	15	6Y:1X	4	
	С	3	10	5Y : 1X		
	D	4	6	4Y : 1X		
	The above schedule shows th	5	3	3Y:1X		
	b) Marginal rate of sub- one good for the other. rational consumer will sac X, due to the application of MRS should be diminish marginal utility due to wh not fall, s/he will keep of stable equilibrium.	stitution (MRS) is the It depends on the crifice lesser units of law of diminishing ing as additional color the consumer w	quantity of the two f Good Y so as to acq g marginal utility. onsumption of Comi vill not further increa	goods s/he is consu uire additional units modity X, symbolise se its consumption. I	of Good  es fall in f it does reach a	
11	Market equilibrium is determined at a point where market demand is equal to market supply.  a) When increase in market demand is less than decrease in market supply  Chain effect: Relative increase in market demand is less than relative increase in market supply. It is a situation of excess supply. There will be competition among the sellers, to clear the unsold stock which will result in reduction in price.					
	This process will conting increase and the equilib	•		d. Equilibrium quan	ntity will	
	b) Increase in the market	demand is more tha	in increase in market	supply.		
	Chain effect: Relative in supply. It is a situation which will result in rise	n of excess demand	-			
	This process will contine equilibrium price will in			ed. Equilibrium quan	tity and	

Effect on supply curve of Good X when there is a:

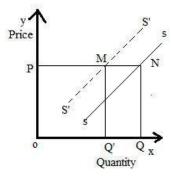
12

i) Fall in own price of Good X -When the price of a commodity falls, it leads to reduced profit margin of the producers, forcing them to sell lesser quantity. It is called as contraction in supply. There will be movement along the same supply curve towards the origin.



For e.g. When price falls from  $OP_1$  to  $OP_2$  in the given figure, quantity supplied contracts from  $OQ_1$  to  $OQ_2$  and the producer moves from point M to point N.

**ii)** Rise in price of factor input producing Good X -When price of factor input producing Good X rises, profit margin of the producers fall, forcing them to produce less quantity of Good X at the given price. Supply curve will shift leftwards.



As in the figure, initially the producer was producing OQ quantity at OP price, if price of factor input increases, producer will now be willing produce less quantity say OQ' at same price. Supply curve will shift leftwards from SS to S'S'.

Or

6

	The two conditions of producer's equilibrium are:						
	The two condition	s of produ	cer's equilibrium are:				
	(i) Margi	nal Cost sh	ould be equal to Marg	ginal	Revenue (MC= M	R )	
	(ii) Marginal Cost should be rising at the point of equilibrium.						
		Output	Marginal Revenue		Marginal Cost		
			(MR) ( in ₹)		(MC (in ₹)		
		1	20	<	14		
		2	10	<	10		
		3	6	<	7		
		4	4	=	4		
		5	2	<	6		
		-		n un	its of output bec	ause it satisfies both the	
	conditions of e	equilibrium	1.				
	(i) If MC	is less tha	n MR i.e. at any outp	ut le	vel less than 4 un	its, it is profitable for the	
			luce more units till Mo			·	
						at 5 <sup>th</sup> units, production of	
	each additional un	iit is sold a	t a loss, which leads to	ded	cline in profits for	the producer.	
			Section B- Mac	ro E	conomics		
13			Section B- Iviac	IO E	Conomics		1
	Money Multiplier=	$=\frac{1}{100}=\frac{1}{200}=$	5				
14		LKK 2070					1
	It refers to the total	al quantity	of money in circulation	n in	the economy at a	given point of time.	
			Or				
	Reverse Repo Rate is the rate at which central bank of a country (RBI in India) borrows funds from						
	commercial banks	within the	country.				
15	a) Drafita af III	مناطنیم د					1
	c) Profits of LIC	, a public	enterprise				
16							1
	d) Fiscal deficit is the sum of primary deficit and interest payment.						
17							
	The Aggregate Demand (AD) function is given as:  AD = C +I						
	$AD = C + I$ $AD = \{ c + b(Y) \} + I$						
	<b>ć</b> = 50		Given)				
	Cubetitution that		b or MPC = 1 - MPS =				3
	Substituting the Va		nd b in AD function, w 0+ 0.8 (4000)}+100 =	_			
	Aggregate Demand				,		
			0-				 
	Or						

	No, the Economy is not in a state of equilibrium at ₹1500 crores Given Consumption function, C = 200+0.5Y	
	Investment expenditure (I) = ₹400 crore	
	At the equilibrium level	
	Y= C+I	
	Substituting the values from the question:	
	Y= {200+0.5Y}+ 400	
	Y - 0.5Y= 600 0.5Y = 600	
	$Y = \frac{600}{0.5} = 1200$	
	The equilibrium level of income is ₹1200 crores. The given income ₹1500 crore is greater than	
	equilibrium level of income. Therefore, the economy is not in equilibrium.	
18		3
	Effective demand refers to that level of output where Aggregate demand is equal to the	
	Aggregate supply.	
	If Aggregate Demand exceeds Aggregate Supply, it means buyers are planning to buy more goods	
	and services than producers are planning to produce. Thus, the inventories in hand with the	
	producers will start falling. As a result, producers will plan to raise the production. This will	
	increase the level of income upto the level Aggregate Demand is equal to Aggregate Supply.	
19	The problem of double counting arises when the value of certain goods and services are counted	4
	more than once while estimating National Income by Value Added Method. This happens when	7
	the value of intermediate goods is counted in the estimation of National Income alongwith the	
	final value of goods and services.	
	Two methods to avoid the problem of double counting:	
	i. To consider only the final value of output produced.	
	ii. To consider only the value added of the output produced.	
	in to consider only the value added of the output produced.	
	Or	
	<b>5.</b>	
	Circular Flow of income in a two sector economy - Households are owners of factors of	
	production, they provide factor services to the firms (producing units). Firms provide factor	
	payments in exchange of their factor services. So, factor payments flow from firms (producing	
	units) to households.	
	A Spending	
	Goods and Services B	
	Firms	
	Factor Payments C	
	Factor Services D	
	Households purchase goods and services from firms (producing units) for which they make	
	payment to them. So, consumption expenditure (spending on goods and services) flows from households to the firms.	
	nouseholds to the littlis.	
20		
	Economic Growth implies a sustainable increase in real GDP of an economy, i.e. an increase in	
	volume of goods and services produced in an economy. Budget can be an effective tool to ensure	
	the economic growth in a country.	
	i) If the government provides tax rebates and other incentives for productive activities,	
	Page <b>6</b> of <b>9</b>	

	it can stimulate savings and investments in the economy.	
	ii) Spending on infrastructure in the economy promotes the production activities across different sectors. Government expenditure is a major factor that generates demand for different types of goods and services, which induces economic growth in the economy.	4
21	<ul> <li>i. Open Market Operations (OMO)refers to the sale and purchase of government securities in the open market by the Central Bank (RBI). By selling such securities the Central Bank soaks liquidity from the economy and by purchasing the government securities, Central Bank releases liquidity. This is an important method of regulating the money supply (liquidity) in the market.</li> <li>ii. The Margin Requirement of loan refers to the difference between the current value of the security offered and amount of loan granted.</li> <li>When margin requirement is lowered by the Central Bank, the borrowers are able to secure larger amount of funds from the banks which will increase the money supply in the economy. Conversely, a rise in the margin requirements will contract the supply of credit in the economy.</li> </ul>	4
22	<ul> <li>a) Precautions of value added method are:         <ul> <li>i) Value of sale and purchase of second hand goods is not considered while estimating value added as the value of second hand goods is already accounted during the year they were produced.</li> <li>ii) Value of intermediate goods is not included in the estimation of value added because value of intermediate goods is reflected in the value of final goods.</li> </ul> </li> </ul>	3
	b) Value of output of firm B= Sales of firm B to firm C+ Sales of firm B to firm D + Exports +Sales of firm B to Government = 70+40+30+5 = ₹145 crores Value Added by Firm B= Value of output by Firm B – Purchases by Firm B from firm A = 145-80	3
	= ₹65 crore	
	Or	 
	<b>National Income at Constant Prices</b> : When national product is estimated on the basis of prices prevailing in the base year, it is called national income at constant prices or real national income.	
	National Income at Current Prices: When national product is estimated on the basis of prices prevailing in the current year, it is called national income at current prices or nominal national income.  National income at current prices  National income at current prices  Price index of current year  Price index of base year	6
	National income at constant prices reflects the real growth of an economy because it increases only when there is an increase in real national output over a period of time.  National income at current prices may increase due to increase in prices of goods and services during the current year, thus it does not reflect the true picture of economic growth.	

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Initial increase in investment increases the final income of the economy. Investment multiplier explains this effect;

Multiplier (k) is the ratio of the increase in National Income ( $\Delta Y$ ) due to a given increase in investments ( $\Delta I$ ).

$$\mathbf{k} = \{\frac{\Delta Y}{\Delta I}\}$$

For eg. If an additional investment of  $\mathbb{T}$  1,000 crores is made by government for a bullet train project in a country; this extra investment will generate an extra income of  $\mathbb{T}$ 1,000 crore, as expenditure of one is income for another. Also, it is assumed that Marginal Propensity to Consume of the country is 0.8.

An additional investment of  $\mathbb{Z}1,000$  crores ( $\Delta I$ ) made by government will generate an extra income of  $\mathbb{Z}1,000$  crores in first round. If MPC of this country is 0.8, the nationals who are receiving this additional income will spend 80% portion of this additional income, i.e.  $\mathbb{Z}$  800 crores which in return becomes additional income during third round. Similarly, in third round  $\mathbb{Z}$  640 crores of income is generated.

Consumption expenditure in every round will be 0.8 times of additional income received from previous round.

Round	Increase in	Increase in	Increase in	Increase in Saving
	Investment	Income (ΔY)	Consumption (∆C)(₹	(₹Crore)
	(ΔI) (₹Crore)	(₹Crore)	Crore)	$(\Delta S = \Delta Y - \Delta C)$
			(ΔY X 0.8)	
1 <sup>st</sup>	(1000)	1000	800 (1000X0.8)	
	1,000		T .	200
2 <sup>nd</sup>		800	640 (800X0.8)	160
3 <sup>rd</sup>		640	512 (640 X 0.80)	128
4 <sup>th</sup>		512	409.6	
		<b>←</b>	(512 X 0.8)	102.4
			<u></u>	
∞		🛨		
Total	1,000	5,000	4,000	1,000
				• .,,,,,,

Thus, additional investment of  $\mathbb{Z}1,000$  crores leads to total increase of  $\mathbb{Z}5,000$  crores  $\{1000x\frac{1}{1-0.8}\}$  in Income.

As a result Multiplier (k) is  $\frac{\Delta Y}{\Delta I} = \frac{5000}{1000} = 5$ .

24

a) USA has a valid point of argument as devaluation of a currency encourages exports of a country. As exported goods become cheaper in the international market giving a competitive edge for the goods of domestic country (China). Devaluation of the value of domestic currency promotes the exports of the country and may adversely impact the production and sale of importing country (USA).

3

b) Current Account Deficit (CAD) is a situation that arises when the receipts on current account are less than the payments on current account. In simple words, Current Account Deficit (CAD) arises when the value of exports of goods and services is less than the value of imports of goods and services.

Current Account surplus (CAS) is a situation that arises when the receipts on current account is more than the payments on current account. In simple words, Current Account Surplus (CAS) arises when the value of exports of goods and services is more than the value of imports of goods and services.

3

CAD signifies that the nation is a borrower from rest of the world, whereas, CAS signifies that the nation is a lender to the rest of the world.