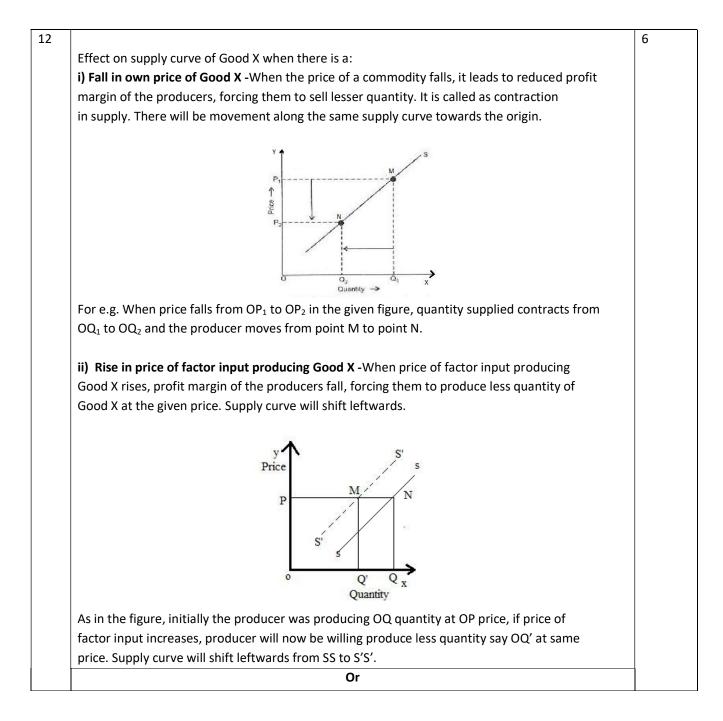
Class XII Economics (030) Marking Scheme 2018-19

S.No	Section A- Micro Economics						
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.						
		C)r				
	Law of \	/ariable Proportions					
2	₹	3,000		1			
3	a)	a straight line		1			
4	d) wage	S		1			
)r				
	b)						
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%.					
		C)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							
			g one rupee on consumption of commodity X is ding one rupee on consumption of commodity Y.				
	The sati		lity X is greater than the satisfaction derived by				
	Mr. Atal Singh will reallocate his income by spending more on commodity X, as he will consume						

		• •		consumption of commodity >	
			occurs for Commodity Y,	this process will continue till $\frac{MO_{3}}{P_{X}}$	<u> </u>
	becomes equal to $\frac{M}{R}$	$\frac{U_Y}{V_Y}$.			
7					
	Price elasticity of de	mand (Ed) =	age cha in quantity demo vercentage change in price o	anded of the commodity of the commodity	
	Percentage change	n price = $\frac{12-1}{10}$ X 10	$0 = \frac{2}{10} \times 100 = 20\%$		
	Percentage change	n quantity demand	ed = 40%		
	Price elasticity of de	mand (Ed) =	age chang in quantity demo vercentage chang in price o	anded of the commodity of the commodity	4
	$=\frac{40\%}{20\%}=2$				
	(minus sign i	s ignored as it only	represents the inverse re	lation between price and quantity demanded.	
	Ed = 2 (Ed > 1, Elasti	c demand)			
			Or		1
					-
	will able to purch	ase more units o	f the given good with	of the consumer increases as he the same money income. This in reasons for negative slope of	5
	Variable	Total Physical	Average Physical	Marginal Physical	4
		Product			
	input	Product	Product	Products	
	input (in units)	(in units)	(in units)	Products (in units)	
	(in units)	(in units) 10	(in units) 10	(in units) 10	
	(in units) 1 2	(in units) 10 22	(in units) 10 11	(in units) 10 12	
	(in units) 1 2 3	(in units) 10 22 30	(in units) 10 11 10	(in units) 10 12 8	
	(in units) 1 2 3 4	(in units) 10 22 30 35	(in units) 10 11 10 8.75	(in units) 10 12 8 5	
	(in units) 1 2 3	(in units) 10 22 30	(in units) 10 11 10	(in units) 10 12 8	
	(in units) 1 2 3 4 5 Price Discrimination commodity from direxercise this feature otherwise) from diference otherwise) from diference otherwise) from diference otherwise otherwise) from difference otherwise othe	(in units) 10 22 30 35 30 - is a situation while ferent set of consumers different consumers.	(in units) 10 11 10 8.75 6 here the monopolist char umers. Monopolist being rent prices (for the proc	(in units) 10 12 8 5 -5 rges different set of prices of the the only seller in the market car flucts which are homogeneous of city distribution companies might	- 4
	(in units) 1 2 3 4 5 Price Discrimination commodity from direxercise this feature otherwise) from diference otherwise) from diference otherwise) from diference otherwise otherwise) from difference otherwise othe	(in units) 10 22 30 35 30 - is a situation while ferent set of consumers different consumers.	(in units) 10 11 10 8.75 6 here the monopolist char mers. Monopolist being rent prices (for the proc For example the electric	(in units) 10 12 8 5 -5 rges different set of prices of the the only seller in the market car flucts which are homogeneous of city distribution companies might	- 4
	(in units) 1 2 3 4 5 Price Discrimination commodity from direxercise this featur otherwise) from difector charge different price In an oligopoly mar	(in units) 10 22 30 35 30 - is a situation while the set of consumers of consumers of consumers. the set of consumers of the set o	(in units) 10 11 10 8.75 6 here the monopolist chan umers. Monopolist being rent prices (for the proc For example the electric nd commercial electricity Or	(in units) 10 12 8 5 -5 rges different set of prices of the the only seller in the market car flucts which are homogeneous of city distribution companies might	4 :
	(in units) 1 2 3 4 5 Price Discrimination commodity from direxercise this featur otherwise) from difectore different price In an oligopoly mar barriers maybe:	(in units) 10 22 30 35 30 - is a situation while the set of consumers of consumers of consumers. the set of consumers of the set o	(in units) 10 11 10 8.75 6 here the monopolist chan umers. Monopolist being rent prices (for the proc For example the electric ind commercial electricity Or rs to entry' prevent new	(in units) 10 12 8 5 -5 rges different set of prices of the the only seller in the market car ducts which are homogeneous of city distribution companies might r users.	4 :
	(in units) 1 2 3 4 5 Price Discrimination commodity from direxercise this featur otherwise) from difectore different price In an oligopoly mar barriers maybe: i. Require	(in units) 10 22 30 35 30 - is a situation while ferent set of consumers. the by charging differ ferent consumers. the set from domestic and ket, certain 'barrier	(in units) 10 11 10 8.75 6 here the monopolist chan umers. Monopolist being rent prices (for the proc For example the electric ind commercial electricity Or rs to entry' prevent new	(in units) 10 12 8 5 -5 rges different set of prices of the the only seller in the market car ducts which are homogeneous of city distribution companies might r users.	4 :

	iv.	Control over im	portant 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	a) satisfac	 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. The following table shows, bundles of Good X and Y which provide same level of 					
		Bundles	Units of Good X	Units of Good Y	MRS ($^{\Delta y}/_{\Delta x}$)]	
		Α	1	21	<u>-</u>	-	
		B	4	15	6Y:1X	- 4	
		C	3	10	5Y:1X	1	
		D	4	6	4Y:1X]	
		E	5 that for each addition	3	3Y:1X		
	one	e good for the othe	ubstitution (MRS) is th r. It depends on the sacrifice lesser units of	quantity of the two	goods s/he is consu	uming. A	
	one rati X, d MR ma not	e good for the othe onal consumer will lue to the applicatio S should be dimini rginal utility due to	r. It depends on the	quantity of the two f Good Y so as to acq g marginal utility. onsumption of Comu vill not further increa	goods s/he is consu uire additional units modity X, symbolise se its consumption.	uming. A of Good es fall in If it does : reach a	
1	one rati X, d MR mai not stal	e good for the othe ional consumer will s due to the applicatio S should be dimini rginal utility due to v fall, s/he will keep ble equilibrium.	r. It depends on the sacrifice lesser units of n of law of diminishing shing as additional co which the consumer w	quantity of the two f Good Y so as to acq g marginal utility. onsumption of Comu vill not further increa nsumption of Comm	goods s/he is consu uire additional units modity X, symbolise se its consumption. odity-X and will not equal to market sup	uming. A of Good es fall in If it does treach a 6	
11	one rati X, d MR mai not stal Market a) V C S	e good for the othe fonal consumer will s due to the applicatio S should be dimini rginal utility due to fall, s/he will keep ble equilibrium. equilibrium is deter When increase in ma chain effect: Relative upply. It is a situati	r. It depends on the sacrifice lesser units of n of law of diminishing shing as additional co which the consumer w on increasing the con	quantity of the two f Good Y so as to acq g marginal utility. onsumption of Com vill not further increa nsumption of Comm re market demand is an decrease in market demand is less than There will be compe	goods s/he is consu uire additional units modity X, symbolise se its consumption. odity-X and will not equal to market sup et supply relative increase ir	uming. A of Good es fall in If it does : reach a oply. 6	
1	one rati X, d MR mai not stal Market a) V C si c T	e good for the othe ional consumer will s lue to the applicatio S should be dimini rginal utility due to v fall, s/he will keep ble equilibrium. equilibrium is deter When increase in ma chain effect: Relative upply. It is a situati lear the unsold stock	r. It depends on the sacrifice lesser units of n of law of diminishing shing as additional co which the consumer w on increasing the con mined at a point when rket demand is less th e increase in market on of excess supply.	quantity of the two f Good Y so as to acq g marginal utility. onsumption of Com vill not further increa nsumption of Comm re market demand is an decrease in marke demand is less than There will be compe eduction in price. rium point is attaine	goods s/he is const uire additional units modity X, symbolise se its consumption. odity-X and will not equal to market sup et supply relative increase ir stition among the se	uming. A of Good 2 es fall in If it does reach a 6 oply. 6 n market ellers, to	
11	one rati X, d MR mai not stal Market a) V C si c T ir	e good for the othe ional consumer will s due to the applicatio S should be dimini rginal utility due to v fall, s/he will keep ble equilibrium is deter When increase in ma chain effect: Relative upply. It is a situati lear the unsold stock this process will con increase and the equi	r. It depends on the sacrifice lesser units of n of law of diminishing shing as additional co which the consumer w on increasing the con mined at a point when rket demand is less th e increase in market on of excess supply. k which will result in re- tinue till new equilible	quantity of the two f Good Y so as to acq g marginal utility. onsumption of Com vill not further increa nsumption of Comm re market demand is an decrease in market demand is less than There will be compe eduction in price. rium point is attaine rease in the market.	goods s/he is consu uire additional units modity X, symbolise se its consumption. odity-X and will not equal to market sup et supply relative increase ir stition among the se d. Equilibrium quar	uming. A of Good es fall in If it does reach a oply. 6 oply. 6	
11	one rati X, d MR mai not stal Market a) V C Si C Si C Si C Si C Si C Si C Si C S	e good for the othe fonal consumer will s due to the applicatio S should be dimini rginal utility due to fall, s/he will keep ble equilibrium. equilibrium is deter When increase in ma chain effect: Relative upply. It is a situati lear the unsold stock this process will con- ncrease and the equi- ncrease in the market	r. It depends on the sacrifice lesser units of n of law of diminishing shing as additional co which the consumer w on increasing the con- mined at a point when rket demand is less th e increase in market on of excess supply. k which will result in re- tinue till new equilibri ilibrium price will decr et demand is more that e increase in market de- ion of excess demand	quantity of the two f Good Y so as to acq g marginal utility. onsumption of Com vill not further increa nsumption of Comm re market demand is an decrease in market demand is less than There will be compe eduction in price. rium point is attaine rease in the market. an increase in market emand is greater tha	goods s/he is consu uire additional units modity X, symbolise se its consumption. odity-X and will not equal to market sup et supply relative increase ir stition among the se d. Equilibrium quan supply. n relative increase ir	uming. A of Good es fall in If it does : reach a oply. 6 oply. 6 n market ellers, to ntity will	



	The two conditions of producer's equilibrium are:						
	(i) Marginal Cost should be equal to Marginal Revenue (MC= MR)						
	(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		
				th ur	its of output bec	ause it satisfies both the	
	conditions of e	equilibrium	1.				
						nits, it is profitable for the	
	produ	cer to proc	duce more units till M	L De	comes equal to M	к.	
	When MC become	es greater	than MR after the MI	R = N	/IC condition, i.e.	at 5 th units, production of	
	each additional ur	nit is sold a	t a loss, which leads to	o deo	line in profits for	the producer.	
			Section B- Mac	ro E	conomics		
13	Money Multiplier-	$\frac{1}{1} = \frac{1}{1}$	5				1
14		<u>LRR 20%</u>					1
	It refers to the total quantity of money in circulation 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	e country.				
15	c) Profits of LIC, a public enterprise						1
16	d) Fiscal deficit is the sum of primary deficit and interest payment.						1
17	The Aggregate Demand (AD) function is given as : AD = C +I						
	$AD = \{ \acute{c} + b(Y) \} + I$						
	ć = 50	(Given) b or MPC = 1 – MPS =	1 _	0 2 - 0 8		3
	Substituting the va	alues of cla	and b in AD function, w				5
			50+ 0.8 (4000)}+100 =	-			
	Aggregate Deman	-	1 7.				
	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	
	$Y = \frac{600}{0.5} = 1200$	
	0.5 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	
	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.	
	II. To consider only the value added of the output produced.	
	Or	-
		-
	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 Households	
	Factor Payments	
	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.	
20		
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.	
1		
	i) If the government provides tax rebates and other incentives for productive activities,	

it can stimulate savings and investments in the economy. 4 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 1 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. 4 ii. The Margin Requirement of loan refers to the difference between the current value of the security offered and amount of loan granted. 4 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. Conversely, a rise in the margin requirements will contract the supply of credit in the economy. Conversely, a rise in the margin requirements will contract the supply of credit walue of output of firm B to firm B to firm C 4 Sales of firm B to firm D + Exports +Sales of firm B to firm B to firm B to firm B to firm D + Exports +Sales of firm B to firm B to firm C 4 Sales of firm B to firm A = 145 - 80 3 2 Or Or National Income at Current Prices: When national product is estimated on the basis of prices prevailing in the current year, it is called nationa			
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 a) Precautions of value added method are: 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. 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. 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 ₹65 crore Autional Income at Constant Prices: When national product is estimated on the basis of prices prevailing in the current prices: When national product is estimated on the basis of prices prevailing in the current prices: When national product is estimated on the basis of prices prevailing in the current prices: When national product is estimated on the basis of prices prevailing in the current prices: When national product is estimated on the basis of prices prevailing in the current prices: when national product is estimated on the basis of prices prevailing in the current prices: when national product is estimated on the basis of prices prevailing in the current prices: when national product is estimated on the basis of prices prevailing in the current prices: when national product is estimated on the basis of prices prevailing in the current prices at constant prices are price index of base year		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	
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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 (ΔY) due to a given increase in investments (ΔI).

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

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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 ₹1,000 crores (ΔI) made by government will generate an extra income of ₹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. ₹ 800 crores which in return becomes additional income during third round. Similarly, in third round ₹ 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
Round				
	Investment	Income (ΔY)	Consumption (∆C)(₹	(₹Crore)
	(∆I) (<i>₹</i> Crore)	(₹Crore)	Crore)	$(\Delta S = \Delta Y - \Delta C)$
			(ΔY X 0.8)	
1 st		1000	800 (1000X0.8)	
	1,000			200
2 nd		800	640 (800X0.8)	160
3 rd		640	512 (640 X 0.80)	128
4 th		512	409.6	
		▲	(512 X 0.8)	102.4
		🖌	1	
∞		←		
Total	1,000	5,000	4,000	1,000

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

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

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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 3 domestic currency promotes the exports of the country and may adversely impact the production and sale of importing country (USA).

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.	