Marking Scheme Economics (030) Cass XII (2017-18)

	SECT	ION A : MICROECONOMICS		
1	b) Government should be concerned with how to reduce unemployment			
2	Marginal Physical Product is the change in output produced by employing one additional unit of the variable input. It can be calculated as:			1
	ΔTPP			
	$MPP_n = \frac{\Delta TPP}{\Delta Units \ of \ variable \ input}$			
	or			
	$MPP_n = TPP_n - TPP_{n-1}$			
3	i) ₹140			1
1	Zero.			1
5	Two factors that may shift the Production Possibility Frontier of an economy away from origin (to the right) are: (a) Increase in resources available to an economy (natural, physical or human resource).			3
	New resources may increase the output potential in an economy resulting in shift of PPF away from origin.			
	(b) Improvement in technology, when technology improves the production potential increases, i.e. economy may be able to produce more output using existing resources efficiently.			
		y be able to produce more outp	•	
			•	
		y be able to produce more outp	Marginal Rate of Transformation =	_
	efficiently.	y be able to produce more outp Or	Marginal Rate of Transformation = Loss of output	_
	Commodity A	Or Commodity B	Marginal Rate of Transformation =	_
	Commodity A	Or Commodity B	Marginal Rate of Transformation = Loss of output Gain of output	
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	Commodity A 15 -5 10	Or Commodity B	Marginal Rate of Transformation = Loss of output Gain of output	
	Commodity A 15 -5 10 -5 5	Or Commodity B 0 1 +1 2 +1 3	Marginal Rate of Transformation = Loss of output Gain of output 5:1 5:1 5:1	
6	Commodity A 15 -5 10 -5 5 -5 0	Or Commodity B 1 +1 2 +1 3 +1 ation is constant, PPC will be a	Marginal Rate of Transformation = Loss of output Gain of output 5:1 5:1 5:1 straight line.	3

	media reports of harmful effect of the good X, as a result, demand curve may shift towards left.	
	(iii)When income of consumer increases the disposable income increases and consumer is in a better position of spending more on the good X. Hence consumer may consume more of the commodity due to which the demand for the good increases and demand curve shifts away from origin.	
7	a) -0.53, -0.80, -0.87,- 3.1 (minus sign only represents the inverse relation between price and	4
	quantity demanded)	
	b)	
	Price (in ₹) Quantity (in units)	
	Original = 28 Original = 50	
	New = 23 New = 100	
	Ed = Change in Quantity Demanded	
	$=\frac{50}{5} \times \frac{28}{50}$	
	= 5.6 (Ed>1, relatively more elastic demand.)	
8	A Floor price is the minimum price at which a commodity can be sold legally. Floor price if fixed above the equilibrium price, serves the purpose of welfare of the producers (say farmers). When price floor is fixed at P" quantity demanded will contract to OQ" but at this price, suppliers will be ready to supply OQ'. As a result, surplus of QQ" will emerge.	4
	Price MS MS Floor Price	
	E $Equilibrium\ Price = OP'$ $Equilibrium\ Qty = OQ$ $Floor\ Price = OP''$	
	Excess Supply = $ab = Q'Q''$ MD	
	O Q" Q Q' Quantity ×	
	Imposition of floor prices above equilibrium price will have the following major implications:	
	a) Surpluses: The quantity actually brought and supplied will shrink as a direct consequence of price flooring, as a result, a part of producer's stock will remain unsold. As shown in the figure the surplus of Q'Q" arises.	
	b) Buffer Stock: In order to maintain the support price, the government may design some programmes to enable producers to dispose of their surplus stocks. One such programme can	

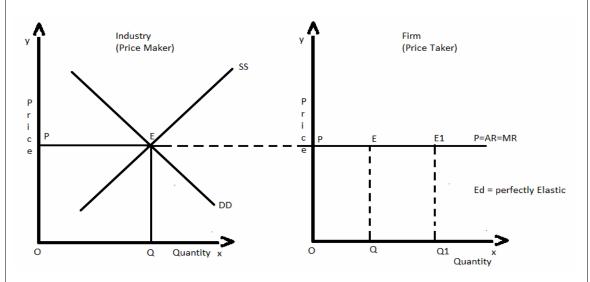
take the form of buffer stock. Government may purchase the surplus to store or sell it at subsidised prices. Subsidy is required to lower the price and make it competitive in the market. Government may also use it as aid and send it to other countries. (any one to be explained)

Or

Price of a commodity is determined by market demand and market supply of a commodity, (i.e. industry is the price maker).

An individual producer/firm has no role in the determination of the price of the commodity (firm is a price taker).

No individual seller or buyer can influence the price of the commodity.



DD and SS are Market demand and market supply curves intersecting at E. OQ quantity (Equilibrium Quantity) would be offered for sale and demanded by the buyers at OP price (Equilibrium Price) per unit. The industry is in equilibrium.

- 9 Supply of a commodity is affected by following factors:
 - a) Price of factor Inputs: If factor input price increases, cost of production generally rises, accordingly producers are willing to supply less at the existing price as the profit probability decreases. This implies leftward shift in supply curve and vice-versa, keeping other factors constant.

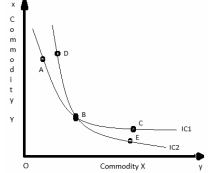
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- b) State of Technology: Improvement in technique of production raises productivity and generally lowers per unit cost of production, consequently the probability to earn more profit also increases and hence the producer is induced to supply more, as a result supply curve shifts towards right.
- c) Government Taxation Policy: If government increases taxes, it will affect the cost of production adversely and hence supply decreases. But if Government decreases the tax the cost of production will fall and the producer will be induced to increase the supply of the commodity, ceteris paribus.
- 10 a) If $\frac{\text{MUx}}{P_X} > \frac{\text{MUy}}{P_y}$, then it means that satisfaction derived from consumption of good X is greater than the satisfaction derived from consumption of Good Y.

 Mr Aman will reallocate his income by spending more on good X. Utility derived from X

	goes on diminishing and reverse preposition occurs for Good Y, this process will continue till $\frac{MUx}{Px}$ becomes equal to $\frac{MUy}{Py}$.	
o)	The second statement 'Two regular convex to origin indifference curves can intersect each other' is not true as the intersection of two regular indifference curves indicate one such point (point of intersection) which yields the similar satisfaction of two different indifference curves which is not possible. In the figure there are two indifference curves IC1 and IC2 intersecting each other, there is clear violation of assumption of monotonic preference.	4
	As per figure satisfaction derived at point A = satisfaction derived at point C (on IC1)	
	And satisfaction derived at point D = satisfaction derived at point E (on IC2)	
	At intersecting point B;	
	C O M M O D O D O D O D O D O D O D O D O	



Satisfaction derived by consumer at points A, C and B is equal and

$$A = C = B (On IC1)$$

$$D = E = B (On IC2)$$

Consequently A = D (which is absurd)

Thus we can say that IC's can't intersect each other.

 \mathbf{OR}

1

1

2

a)
$$P_x Q_x + P_y Q_y = M$$
 $50Q_x + 10Q_y = 500$

b)

Slope of Budget Line = (-)
$$\frac{P_x}{P_y} = (-) \frac{50}{10} = (-) 5$$

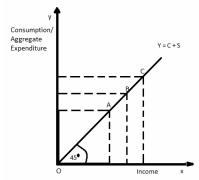
If Qy= Zero, then
$$50Qx + 10Qy = 500$$

$$50Qx + 10(0) = 500$$

_		1	
d)	$Q_x = \frac{500}{50} = 10 \text{ units}$	2	
	Old Py = ₹10		
	New Py = ₹ 5		
	(50% of ₹10 = ₹5)		
	If Py falls the consumer will be able to buy more of good Y in the same money income pushing the Y-intercept of the Budget Line away from origin, keeping the X-intercept constant, it rotates outwards and the equation will be $50Qx + 5Qy = 500$.		
11	a) Total Variable Cost is zero at zero level of output. It initially increases at decreasing rate and later it increases at increasing rate. TVC is an inversely S-shaped curve due to the Law of Variable Proportion.		
	b) Per unit fixed cost is known as Average Fixed Cost. As the value of Total Fixed Cost doesn't vary at any level of output in short run and if it is divided by an incremental number the result would be diminishing with the same proportion as that of the proportion of increase of the number of units and the product will be same.	4	
	AFC as rectangular hyperbola depicts that area beneath the curve given by TFC remains constant at all points t AFC X Q = TFC is constant at all		
	Average fixed cost Output Output		
	Since TFC remains same at different levels of output, AFC falls as the level of output is increased.		
	The AFC keeps on falling as the level of output increases. AFC can never become zero.		
12	(i) We know that the equilibrium price and quantity are achieved at; $Q_d = Q_s$ $200\ 10\ p = 50\ +15p$ $150 = \ 25p$	3	
	Therefore, Equilibrium Price $p = 7$ 6 And, Equilibrium Quantity $q = 200 - (10)$ (6) = 140 units		

	ii) If the price of factor of production has changed, then under the new conditions;	
		3
	$Q_d = Q_s$	
	200-10p = 100 + 15p	
	25p = 100	
	Therefore, Equilibrium Price p =₹ 4	
	And, Equilibrium Quantity $q = 200 - (10)(4) = 160$ units	
	Thus as the equilibrium price is decreasing the equilibrium quantity is increased.	
	Thus as the equinorian price is decreasing the equinorian quantity is increased.	
	SECTION B : MACROECONOMICS	
13	Money supply of a country is a stock of money in circulation at any point of time.	1
14	a. Increasing the investment expenditure which will directly benefit the poor.	1
	b. Increasing the taxes on rich and using the same amount to benefit the poor.	
	(any one or any other relevant measure)	
15	All money mobilised by government that either creates a liability of repayment on	1
1./	Government or involves reduction in some of an asset by selling it off.	1
16	Fiscal Deficit = Borrowings = ₹32 Billion	1
17	MPC = 1 - MPS $MPC = 1 - 0.2$	3
	MPC = 1 - 0.2 MPC = 0.8	
	AD = C+I	
	AD = C + I $AD = A + bY$	
	AD = 50 + 0.8 (300)	
	AD = ₹290 Crores	
	Or	
	$Multiplier = \frac{1}{1 - MPC}$	
	When MPC = $\frac{4}{5}$;	
	$K = \frac{1}{1 - 0.8} = \frac{1}{0.2} = 5$	
	When MPC = $\frac{1}{2}$	
	$K = \frac{1}{1 - 0.5} = \frac{1}{0.5} = 2$	
	Observing the same we may conclude that there exist positive or direct relation between MPC and Investment Multiplier.	
	Investment Multiplier coefficient measures the change in final income with respect to given change in the initial investment in the economy. It carries direct relation with rate of growth in an economy, i.e. higher the MPC more chance of growth exists in an economy. But, it is a two sided sword hence if investment falls in an economy the income may also fall.	
18	Aggregate Supply is obtained by adding consumption and saving schedules. The straight line obtained which will originate from point of origin will form a 45 degree angle there by establishing the relation of	3
	establishing the relation of $Y = C+S$	

Level of Income (Y)	Consumption	Saying (Y-C)	Y = AS = C + S
Level of fileoffic (1)		Saying (1-C)	1 - A3 - C13
	expenditure (C)		
0	200	-200	0
100	250	-150	100
200	300	-100	200
300	350	-50	300
400	400	0	400
500	450	50	500
600	500	100	600
700	550	150	700



At all points on 45 degree line, Consumption is equal to Income. It helps under the Keynesian Economic analysis. Since the two variables (consumption/Aggregate Expenditure and Income) are measured in the same units, the 45-degree line has a slope of one and it bisects the 90-degree angle formed by the two axes.

- 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 ventures and projects, it can stimulate savings and Investments in an economy.

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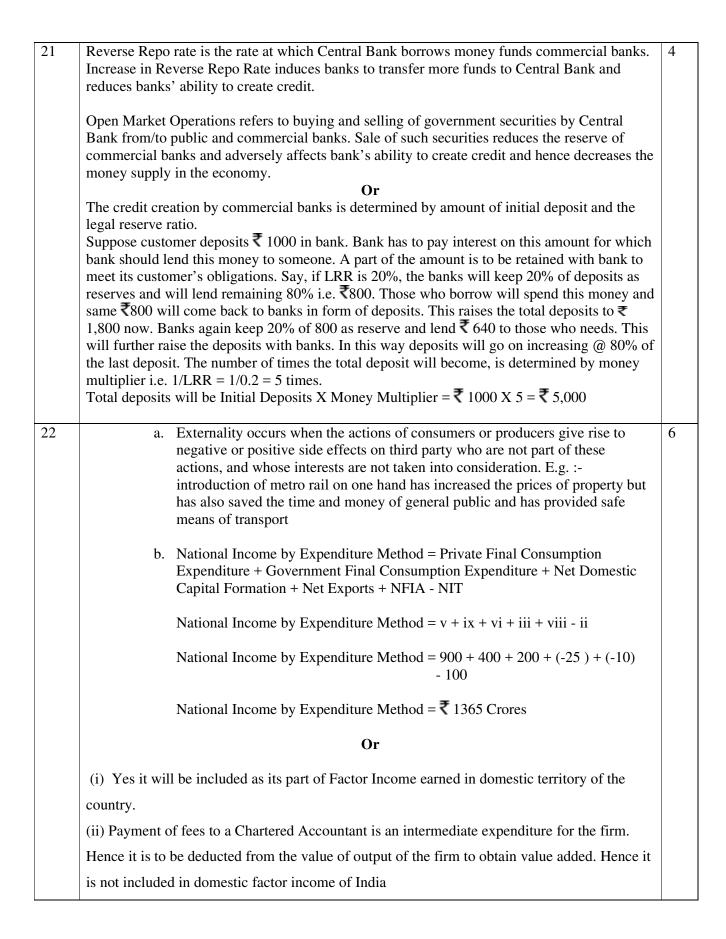
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ii) Spending on infrastructure of an economy enhances the production activity in different sectors of an economy. Government expenditure is a major factor that generates demand for different types of goods and services in an economy which induces growth in private sector too.

However, before planning such expenditure, rebates and subsidies government should check the rate of inflation and tax rates. Also there may be the risk of debt trap if loans are too high to finance the expenditure.

- 20 i) For the year 2011 as it's the base year
 - ii) The Real GDP declined in the year 2015-2016. It could be due to high rate of inflation or price levels.

Year	2014-2015	2015 - 2016	2016 – 2017
Nominal GDP	6.5	8.4	9
GDP Deflator	100	140	125
Real GDP			
$= \frac{Nominal\ GDP}{GDP\ Deflator} \times 100$	6.5	6	7.2



	(iii) No, as rent received be Indian resident from Russian embassy will be part of Fcator	
	Income received from abroad as Russian Embassy is not part of domestic territory of the	
	country.	
	(iv) No, as compensation is given by insurance company to employee and not by employer.	
23	i) True, as planned savings are more causing the Marginal Propensity to Consume to reduce	6
	thus Aggregate Demand will fall and producers will have accumulation of inventory.	Ü
	ii) False, Inflationary Gap exists when actual Aggregate Demand is more than Aggregate	
	Supply corresponding to full employment level of output in the economy.	
	iii) False, at income levels which are lower than break-even point, Average propensity to save	
	can be negative as there will be dissaving in the economy.	
24	a) Depreciation and Devaluation both imply a fall in external value of a currency; however the	3
	term depreciation is used under the floating exchange rate system that is when the exchange	
	rate system is determined by the combined market forces of demand and supply. A currency	
	loses or gains value because of fluctuations in demand and supply.	
	The term devaluation is used in a system of fixed exchange rates. In this system, the exchange	
	value of a currency is decided by the government. Devaluation of currency is the deliberate	
	action of the government.	
	Depreciation and devaluation of a currency normally encourages exports from a country, as	
	exports become cheaper for the foreign nationals and foreign currency can now buy more of	
	domestic goods, i.e. the international competitiveness of the goods and services of such a	
	nation gets better.	
	b) The transactions carried on by monetary authorities of a country, which causes changes in	3
	official reserves are termed as official reserve transactions	5
	Autonomous receipts and autonomous payments give rise to either deficit or surplus on	
	balance of payments. The central bank may finance a deficit by:	
	i. reducing reserves of foreign currency	
	ii. by borrowing from the IMF or monetary authorities	
	This will be shown as decrease in reserves. The central bank may use surplus to purchase	
	foreign securities, foreign currency, gold etc. which may result in increase in reserves of the	
	nation.	