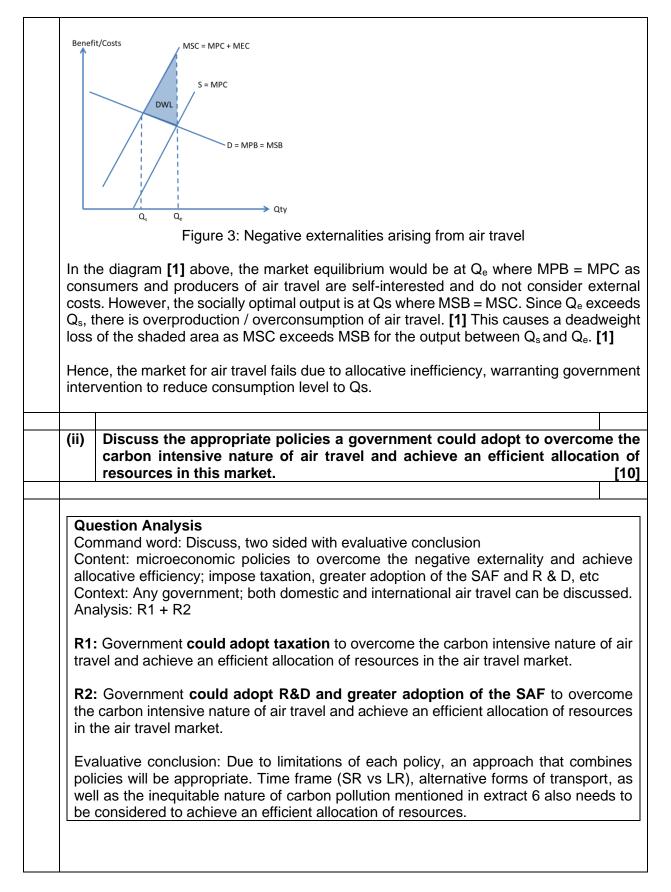
## 2024 H1 EOY Exams – Micro Case Study

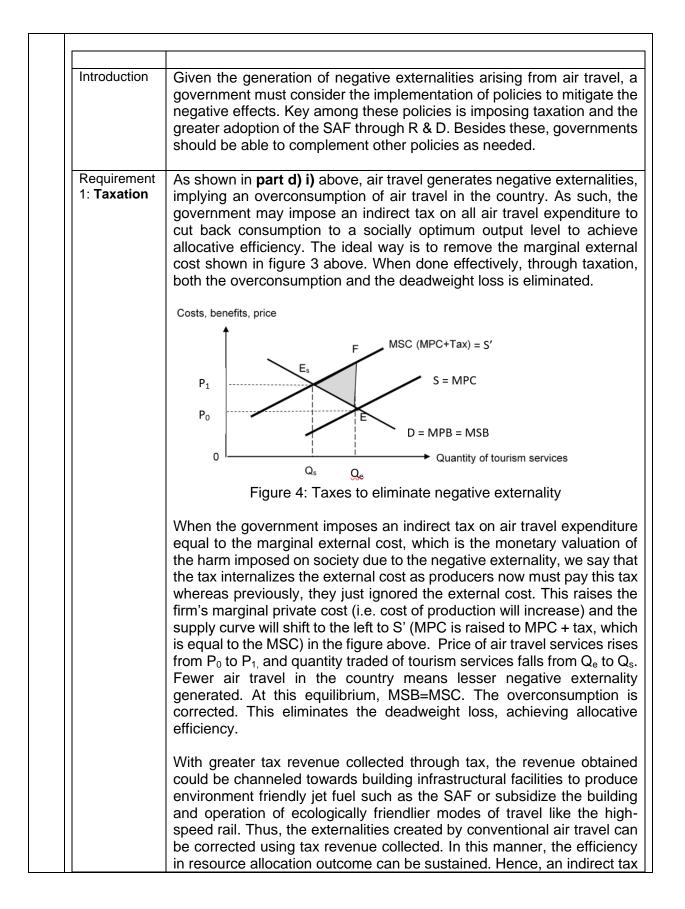
## Suggested Answers

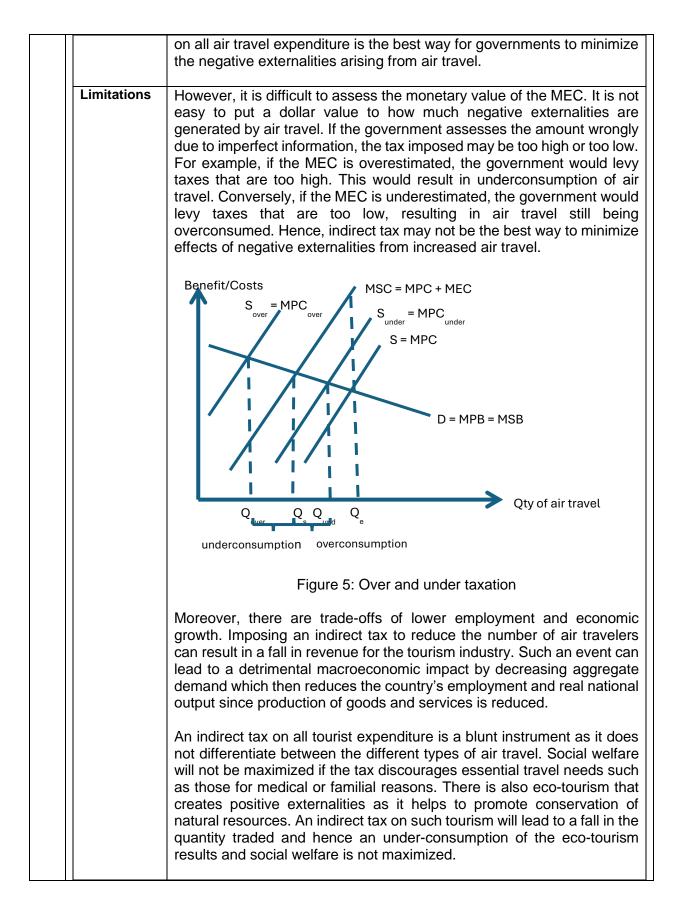
(a)	With reference to Figure 1, compare China's domestic and international passenger traffic recovery (to 2019 levels) for the period between January 2020 and January 2024. [3]
	<ul> <li>Domestic passenger traffic fluctuated widely between February 2020 and January 2023 while international passenger traffic showed little or no change till after January 2023. [1]</li> <li>Both domestic and international passenger traffic began to recover around January 2023. [1]</li> <li>Domestic passenger traffic experiences complete recovery to 2019 levels by April 2023 but international passenger traffic did not recover to 2019 levels at all. [1]</li> <li>Overall, domestic passenger traffic increased slightly while international passenger traffic decreased by about 42 % compared to 2019 levels. [1]</li> </ul>
(b)	(i) Explain the opportunity cost of Chinese government subsidies to the tourism industry. [2]
	<ul> <li>Opportunity cost is the next best alternative forgone. [1]</li> <li>Extract 1 says that subsidies to tourism cost China over 500 billion dollars.</li> <li>This money could have been better used in an alternative area such as healthcare for its citizens. [1]</li> </ul>
	(ii) Using a Production Possibility Curve diagram, explain two benefits of the sharp increase in domestic tourism in China. [5]
	<ul> <li>Due to covid19 lockdowns, the Chinese economy is operating inside PPC<sub>1</sub>, at point A in Figure 1 below, implying unemployed and underemployed resource utilization.</li> <li>With a sharp increase in domestic tourism, as evidenced in extracts 1 &amp; 3, this situation will be reversed leading to better resource utilization. [1] The economy moves from operating inside the PPC to the boundary of PPC<sub>1</sub>, at point B, representing actual growth. [1]</li> <li>In addition, more investments may improve the quantity and quality of capital goods in the economy enhancing the productive capacity. Extracts 1 &amp; 3 suggest improvements to infrastructure such as rail and air networks as well as innovations arising in the industry. [1] As a result the entire curve shifts outwards to PPC<sub>2</sub>, and the possibility of operating at point C, representing potential growth. [1]</li> <li>Clearly labelled, correct diagram. [1]</li> </ul>

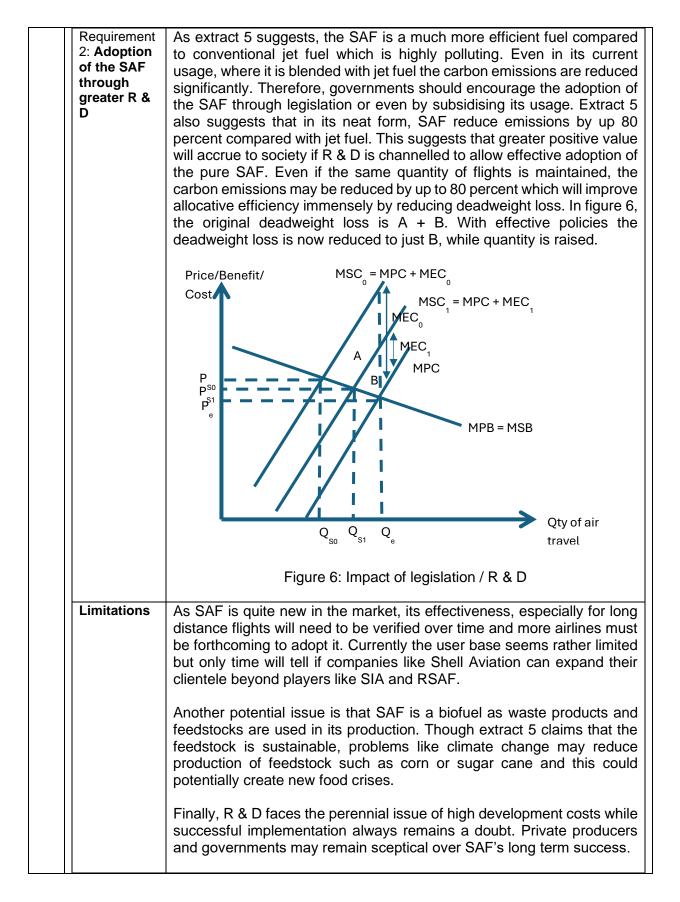
	Capital goods
	C
	В
	PPC1 PPC2 Consumer goods
	Figure 1: BBC for Chine
	Figure 1: PPC for China
(c)	(i) Using information from Extracts 1 & 3, identify and explain one demand factor and one supply factor that contributed to recovery of the domestic airline market in China. [4]
	<ul> <li>Demand factor – Demand increasing, shifting rightwards (Any 1, well elaborated)</li> <li>Taste and preference (extract 3)</li> </ul>
	<ul> <li>Renaissance of domestic tourism</li> </ul>
	<ul> <li>Pent-up travel demand</li> </ul>
	<ul> <li>CNY family reunions</li> </ul>
	<ul> <li>Substitutes (extract 3)</li> </ul>
	<ul> <li>High-speed rail alternative is costlier</li> </ul>
	<ul> <li>Income (extract 3)</li> </ul>
	<ul> <li>Lowered income due to economy not doing well, high youth</li> </ul>
	unemployment etc, therefore overseas travel not a preferred option
	<ul> <li>Government policy (extract 3)</li> </ul>
	<ul> <li>Covid19 travel restrictions for overseas travel</li> </ul>
	• Any of the above demand factors will cause the demand for domestic airline
	services to rise and shift to the right. [2]
	• Supply factor - Supply increasing, shifting rightwards (Any 1, well elaborated)
	<ul> <li>Lowered unit cost of production</li> </ul>
	<ul> <li>Subsidies provided by government (extract 1)</li> </ul>
	<ul> <li>Use of widebody aircraft (extract 3) enables airlines to carry more</li> </ul>
	passengers per flight
	<ul> <li>Upgrading of airports, technological innovations (extract 1)</li> </ul>
	<ul> <li>Increases the airports' capacity enabling more flights to operate</li> </ul>
	• Any of the above supply factors will cause the supply of domestic airline services to increase and shift to the right. [2]
	. With both demand and augusty increasing the grantity traded will increase the
	<ul> <li>With both demand and supply increasing, the quantity traded will increase, thus,</li> <li>contributing to the receivery of the demostic cirling market in China.</li> </ul>
	contributing to the recovery of the domestic airline market in China.
	(ii) Using price elasticity of demand, explain how the inovitable rising costs due to
	(ii) Using price elasticity of demand, explain how 'the inevitable rising costs due to
	capacity building activities' <b>(Extract 3)</b> is likely to affect total revenue on domestic air travel in China. [4]
	air travel in China. [4]
	• The combination of the DED for domestic air travel and changes to supply asysted
	<ul> <li>The combination of the PED for domestic air travel and changes to supply caused by rising costs are likely to affect the total revenue of domestic air travel in China.</li> </ul>
	שי השווש נטשוש מוב ווגבוי וט מוובטו וווב וטומו וביצרוועב טו טטווובשוני מוו נומצרו ווו טוווומ.

	<ul> <li>PED for domestic air travel [1]         <ul> <li>Domestic air travel is seen as a service with a high degree of necessity, due to pent-up demand, CNY reunions.</li> <li>Alternatives like high-speed rail is more expensive, therefore contributing to a low number of substitutes.</li> <li>Demand for domestic air travel is therefore, likely to be price inelastic, with values &lt;1</li> </ul> </li> </ul>
	<ul> <li>Changes to Supply [1]         <ul> <li>Revival of domestic travel sector likely to use up all spare capacity</li> <li>Purchase or leasing of more airplanes to increase capacity is 'a very expensive affair' (extract 3)</li> <li>Thus, the costs of production will inevitably rise</li> <li>Supply is reduced, shifting leftwards</li> </ul> </li> </ul>
	<ul> <li>The effect as shown in diagram below will raise prices to P<sub>1</sub></li> <li>Given that the demand for domestic air travel is price inelastic, the rise in price leads to a smaller proportionate fall in quantity demanded [1]</li> <li>Total revenue is price x quantity. Therefore, while area B is lost, there is an overall net gain as area A is larger. Hence, the total revenue of domestic air travel will increase. [1]</li> </ul>
	Figure 2: Total Revenue on domestic air travel in China
(d)	(i) With the use of a diagram, explain how the market for air travel fails. [4]
	The market for air travel is failing due to <b>negative externalities</b> . These are third party costs incurred by those not directly involved in the economic transactions of the air travel industry and are not compensated for the effects. <b>[1]</b> Explain how market fails due to negative externalities
	Air travel generates negative externalities in terms of the damage to the environment. Carbon emissions from flights are extremely high and it contributes to air pollution and global warming (Extract 5). This process hastens climate change and causes third party effects.
	Such negative externalities cause a divergence between marginal social cost (MSC) and marginal private cost (MPC) as MSC = MPC + marginal external cost (MEC).









	Evaluative		measure it a measure use of the travel and e and have s of living. n measure, h as R & D s measure usport such ant of what nare of the
	Level	Descriptors	Marks
	L2	<ul> <li>Answer provides a detailed and balanced response of how at least two different policies act to overcome the negative externality caused by carbon pollution and achieve allocative efficiency</li> <li>Makes use of data and contextual evidence.</li> </ul>	4-7
	L1	<ul> <li>One-sided answer focussing on a single policy or</li> <li>Answer shows some understanding and knowledge of policies but is lacking in economic analysis</li> <li>No use of data or contextual evidence.</li> </ul>	1-3
	E2	For an evaluative comment that builds on prior analysis.	2-3
	E1	For an unexplained / unsupported judgement.	1
(e)		he factors a government should consider when deciding to ure project such as high-speed rail.	pursue an [8]
	Content: constraint Context: Analysis: <b>R1</b> : Gove	d word: Discuss, two sided with evaluative conclusion Government decision making process, MSB=MSC, benefi ts consequences Any government	its, costs,

Introduction	Government decision making is carried out within the margina
	framework. This framework suggests that the benefits and costs project are weighed against each other before the decision is ma Since it's a government decision it must consider societal interests well. Therefore, the marginalist framework for government will determined by societal benefits and costs and hence, alloca efficiency. A government will decide to go ahead with a project as a s the MSB of the project at least equals the MSC of the proj MSB=MSC.
Requirement 1: <b>Benefits</b>	The potential benefits that a government will consider w constructing a high-speed rail will include the following:
	The main alternative to high-speed rail is air transport. However, travel is a significant culprit in contributing to carbon emissions negative externalities. While high-speed rail may contribute to nega externalities in the short run during the construction phase, in the l run it is a cleaner and greener form of transport. This factor will be important consideration. The adoption of high-speed rail by travel will significantly reduce pollution and health risks among others dependence on fossil fuel is reduced.
	The increased investment in constructing the infrastructure is ral large and will have a macroeconomic impact on the economy. As I component of the AD, the increase in I will lead to a multiplied increase in the AD and hence the national income and employment. Si infrastructure is involved here there is also a supply-side effect in the productive capacity of the nation, the LRAS, is enhanced.
	For large countries, the greater connectivity between the regions also enhance productivity. Raw materials, goods and people can m quickly and efficiently and this can reduce the unit cost of produc thus enhancing the SRAS.
	Countries that are efficient producers of high-speed rail will deve expertise and technological advantages which can then be transfe overseas when they are awarded contracts to build high-speed rai other countries. Japan and China are leading examples here. S capabilities create job and export opportunities.
	Overall, the standard of living is likely to improve for countries that ahead with such a project.
Requirement 2: <b>Costs</b>	As mentioned above, the construction of a high-speed rail is likel incur negative externalities in the short run. As forest and land is clear to lay the new tracks environmental degradation may occur, while the

	<ul> <li>Besides the benefits and costs, governments will also need to factors such as budget constraints, availability of accurate in consequences of taking such a decision and government's at the extent of any trade-offs.</li> <li>Rich countries are likely to have the budget and resources to such projects, while poorer countries that borrow heavily</li> </ul>	nformation bility to lim o undertak
	limited ability to avoid trade-offs. Countries such as Sri Maldives have had to pay heavy political costs due to	
	limited ability to avoid trade-offs. Countries such as Sri Maldives have had to pay heavy political costs due to decisions that were made with inaccurate information.	
Level L2	<ul> <li>Maldives have had to pay heavy political costs due to decisions that were made with inaccurate information.</li> <li>Descriptors</li> <li>Answer provides a detailed and balanced response of how benefits and costs are considered in the decision-making</li> </ul>	
	<ul> <li>Maldives have had to pay heavy political costs due to decisions that were made with inaccurate information.</li> <li>Descriptors</li> <li>Answer provides a detailed and balanced response of how benefits and costs are considered in the decision-making process within the marginalist framework</li> </ul>	unpopula Marks
	<ul> <li>Maldives have had to pay heavy political costs due to decisions that were made with inaccurate information.</li> <li>Descriptors</li> <li>Answer provides a detailed and balanced response of how benefits and costs are considered in the decision-making</li> </ul>	unpopula Marks