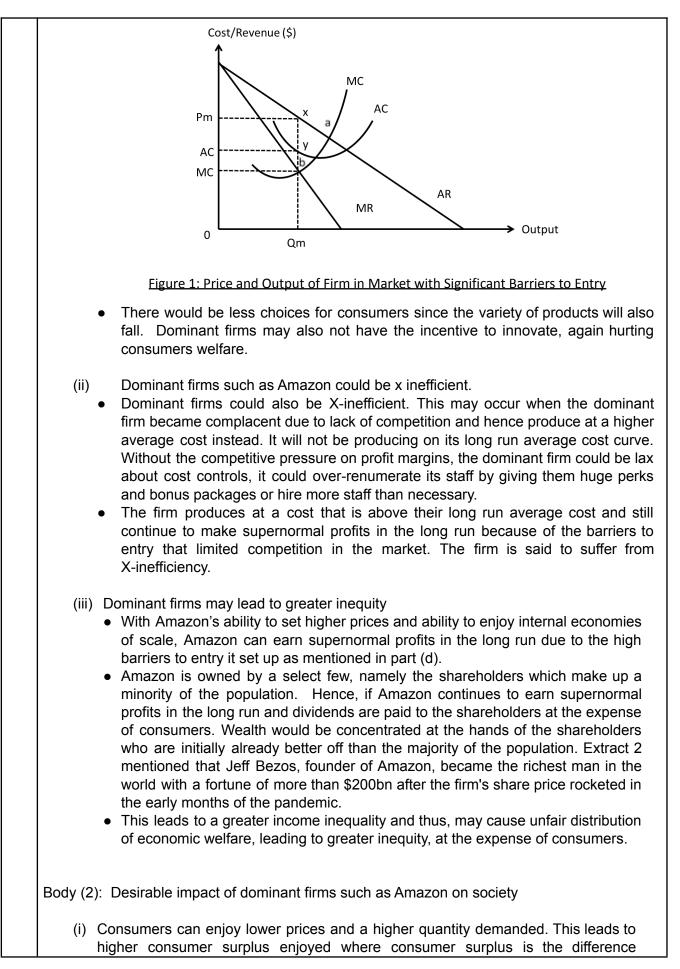
Suggested Solution and Mark Scheme

(a)	Compare the relative change in the retail revenue for Amazon, Walmart and Home Deport -between 2010 and 2020. [2]					
	Similarity: All three firms have seen an increase in their retail revenue between 2010 and 2020. Difference: However, the rate of increase in the retail revenue for the three firms are different, with Amazon experiencing the fastest increase (2,800%), followed by The Home Depot (466%) then Walmart (90%).					
(b)	Using a diagram and a relevant elasticity concept, explain how the Amazon's differentiation strategy					
	 [Extract 1] may have contributed to the change in its revenue. [5] Amazon worked on differentiating their services, for e.g. priorities were placed on customer feedback and service were prompt [in Extract 1] and this has the effect of changing the taste and preferences of consumer towards the services provided by Amazon. This will lead to an increase in demand for their services, c.p. as shown by the shift from ARo to AR₁ in where equilibrium price and quantity will increase, Figure 1, and hence, increase in Amazon's revenue as shown by the area 0PoaQo to 0P1cQ1. Their differentiation strategy promotes customer loyalty who believes that the high standard of services could not be found in the services provided by their rivals, that is the service offered by Amazon is not easily substitutable, and hence, the value of PED for Amazon's services will be less than one, as illustrated by the increase in the gradient of the demand curve (AR1). With PED<1, hence, Amazon could increase the price of their products/services, leading to a less than proportionate decrease in quantity demanded. Hence its revenue will increase. Diagram showing the increase in demand, fall in PED (increase gradient of AR curve) and the area of increased in revenue. 					
(c)	 With reference to Extract 1, explain a source of cost advantage experienced by Amazon. [2] This suggests that technical economies of scale (indivisibility) can be achieved when Amazon taps on the larger warehousing facilities and processing capability [Extract 1] and share the high costs of capital equipment over large output (in this case, the increasing number of users/customers), resulting in a fall in the long run average cost. 					
(d)	 Identify and explain two possible barriers to entry faced by the potential competitors into the e-commerce market that Amazon is in. [3] In the case of e-commerce market, Extract 2 states that Amazon had used data on third-party sellers that use its market-place, which is a control of key resource, to boost sales of its own-label goods. Or Amazon used critical information taken from data on their third party sellers that use its market-place to analyse consumers' preferences and what they are spending their money on which could help Amazon increase its market share and higher profits. These higher profits earned by Amazon could create a natural barrier to entry to prevent potential competitors from entering the market due to their lower demand of its potential rival and not being profitable. And 					

	According to Extract 2, the Commission also launched a fresh probe into the possible
	preferential treatment of sellers that use the tech giant's logistics services . Such practice by Amazon will prevent potential competitors from making profits from having fewer third-party sellers using their platform to sell their goods as these third parties that uses Amazon's logistics services will also have preferential treatment selling on
	Amazon.
(e)	Discuss the likely impact of Amazon's dominant position in the industry on society. [8]
(0)	
	 Introduction: Amazon, being a dominant firm in the industry may have both desirable and undesirable impact on society.
	Body (1): Undesirable impact of dominant firms such as Amazon on society
	 Higher prices may be charged to consumers in markets with dominant firms such as Amazon.
	 With Amazon's large market share in the industry, their dominance might imply the industry is less competitive leading to possible abuse of market power as mentioned in Extract 2. The demand curve facing the dominant firm is downward sloping and the firm will have greater price setter power with the lack of competitors in the industry. While Amazon may charge lower prices to consumers in the short run, however, in the long run, the smaller e-commerce firms may not survive the competition of lower prices and are forced to leave the industry due to their inability to enjoy economies of scale to charge lower prices than Amazon. This may result in greater market dominance and market power for Amazon. Amazon might be able to raise prices and exploit consumers welfare due to few competitors available to offer alternatives to consumers. The e-commerce market would become more allocatively inefficient as seen in Figure 1 above where the lower PED value for its demand will result in its prices rising higher than it marginal cost (MC) in the US. Amazon, an oligopolistic firm, will have a downward sloping and relatively price-inelastic demand (AR) curve as seen in figure 1, and have the significant ability to set prices. A profit-maximising firm will produce at an output Qm where MR = MC at price Pm. This is because at output before Qm, MR exceeds MC and thus each additional output of the firm adds more to revenue than to cost and thus increases the firm's profits. A profit-maximising firm will not produce beyond Qm as each additional output to Qm in order to charge relatively higher prices at Pm. At output Qm, the firm is also likely to be making supernormal profits indicated by the area PmxyAC. It should be noted that the price Pm is at a significant mark-up above the MC at output Qm due to the relatively price-inelastic firm's demand curve, which indicates the significant price-setting ability of a dominant firm. This had had to allocative inefficiency and a deadweight loss to society (area x



between how much consumers in the market are prepared to pay and how much they actually pay.

- Amazon may bring benefits to the consumers of e-commerce in the U.S. in terms of lower prices due to the internal economies of scale enjoyed by the firm as discussed in part (c).
- The cost-savings could be passed on to consumers in the form of lower prices. Consumers enjoy lower prices, and purchase a higher quantity demanded. This will result in higher consumers' surplus.
- (ii) Innovation can be carried out by large and dominant firms such as Amazon.
 - Amazon places great priority on consumers service [Extract 1].
 - Large firms such as Amazon have higher ability to engage in intensive R&D and innovation due to the supernormal profits earned in the long run.
 - Amazons engage in intensive R&D to develop new processes and service differentiation and enhance existing ones. This results in dynamic efficiency benefitting society. Dynamic efficiency can be defined as the situation in which firms are technologically progressive (through investing in research and development for the purpose of product and process innovation) in order to reduce the average cost of production or to meet the changing needs and wants of consumers over time. Examples include, Amazon investing in larger warehousing facilities and processing capability to meet the rising demand and to capitalize on its ability to gain internal economies of scale as discussed in part (c). Extract 2 also mentioned that Amazon has created their own label goods that are more align to consumers' taste and preferences.
 - These resulted in a better quality and a wider variety of products to cater to the different tastes and preferences of consumers. This translates to higher consumer welfare.

Evaluative Conclusion:

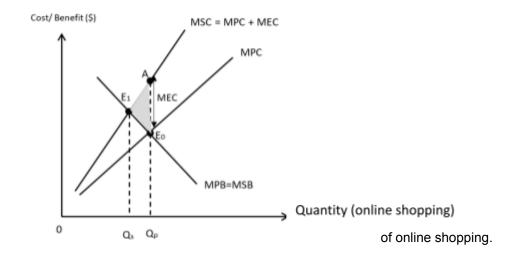
- Whether dominant firms such as Amazon has more positive impact on society depends on the level of contestability of the market.
- If the e-commerce has high contestability, these dominant firms such as Amazon will likely benefit the society due to the incentive to innovate their processes and differentiate their services they provide and at lower prices to keep potential entry of firms at bay. This way, they achieve productive and dynamic efficiency for society and increases consumers welfare.
- However, if there is low contestability in the e-commerce industry, for example, if Amazon is able to reap significant internal EOS, the firms would likely not be beneficial to society. There would be a lack of incentive to pass on the cost savings to consumers or to use invest the supernormal profit gained into R&D without any real threat of competition. This way, it will lead to allocative inefficiency and income inequality in society.

Marking Scheme:

L2	For an answer that demonstrates knowledge and understanding and has application an
4-6	analysis:
marks	At least GOOD breadth that considers the following economic concepts i explaining multiple and balanced perspectives, viewpoints, relationships an factors. MOST points chosen should be of relevance and significance i answering the question.
	At least GOOD depth in economic analysis that reflects the following in MOS
	explanations.

r	·	
		 Accurate use of economic concepts, clear elaboration, and precise use of economic terminologies, language and phrasing.
		The answer should also be supported by: Well-labelled and well referred to diagram(s) / Tool(s) of analysis drawn with precision (where appropriate). Evidence(s). Logical structure.
	L1 1-3 marks	 For an answer that demonstrates knowledge but lacks understanding, application and analysis: INSUFFICIENT breadth that considers the following economic concept(s). Point(s) chosen may be of relevance but may not be of significance in answering the question. INSUFFICIENT depth in economic analysis that may reflect the following: Lack of accuracy in the use of economic concepts, lack of clarity in elaboration, and lack of precision in the use of economic terminologies, language and phrasing.
	E2 2 marks	For an evaluation that contains A synthesis of earlier economic arguments to arrive at relevant judgements/decisions (i.e. answer the question). Well-explained criteria-based evaluative comments supported by accurate and clear analysis to provide fairness in views. A good summative conclusion.
	E1 1 mark	For an evaluation that contains Relevant but unexplained evaluative judgement(s)/statement(s) i.e. evaluative judgement(s)/statement(s) not supported by analysis or A relevant unexplained conclusion
(f)	The "mountains of	discarded packaging" [Extract 3] that comes from online shopping addiction leads
	to economic inefficie	encies in resource allocation. propriate measures to deal with this economic inefficiency in resource allocation.
	shoppers almost 500 • The "mour leads to e	-commerce giants like Alibaba Group Holdings Ltd. and JD.com Inc. luring with huge bargains during the Singles' Day bonanza, Alibaba reported billion yuan (\$76 billion) of sales this year, nearly four times U.S. ntains of discarded packaging" that comes from online shopping addiction economic inefficiencies in resource allocation. That is, there is negative as that arise from the over-consumption of online shopping.
	addition leas to eco With refer 52,400 me generation	how the "mountains of discarded packaging" that comes from online shopping nomic inefficiencies in resource allocation. rence to Extract 3, Greenpeace estimates that Singles' Day generated etric tons of CO2 from manufacturing, packaging and shipping in 2017. The of CO2 from these activities due to online shopping addiction results in f the environment. This is the external cost of consumption imposed on the ent.

- External costs are not borne by the online shoppers these are not reflected in the prices charged for the goods and services. Negative externalities occur when private consumption/ production creates an external cost to society that affects third parties as a 'spill-over effect' that is not internalised by private households and/ or firms.
- Since MEC to society is not internalised by the consumers of online shoppers, there is divergence between MPC and MSC, as seen in Figure 3 below, the actual costs to society is where MSC= MPC+MEC.
- Online shopping consumers behaviour (that led to discarded packaging) only consider their private cost of consumption. MEC is not internalised, leading to a greater private consumption, where MPC=MPB at Qp units, than the social optimal level of output, where MSC=MSB at Qs units of consumption in Figure 3.
- There is over-consumption of QsQp units of online shopping. This results in allocative inefficiency and deadweight/welfare loss to society of area AE₀E₁.

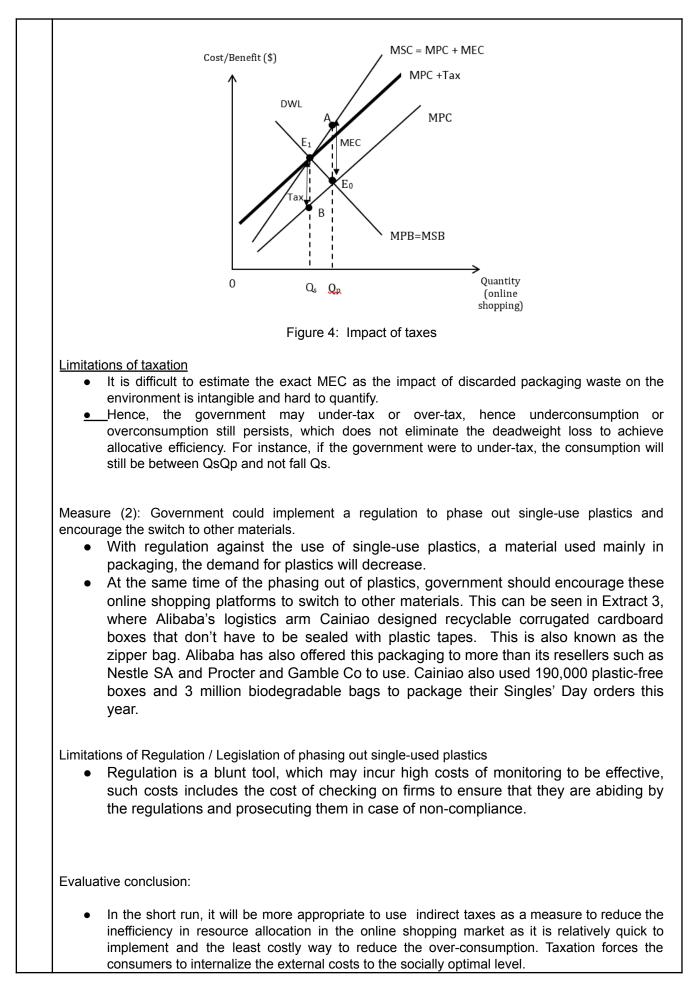


• The government would implement policies to reduce the negative effects of discarded packaging caused by overconsumption of online shopping on the natural environment to achieve allocative efficiency in resource allocation and increase social welfare.

Body (2):

Measure (1): Government could impose an indirect tax on the expenditure on online shopping

- The aim of such indirect specific taxes (for example, expenditure tax) is to get online shopping addicts to internalize the negative cost imposed on the environment caused by packaging wastes.
- The amount of tax that the government should impose should equate to marginal external cost (MEC) at Qs.
- As seen in Figure 4, the tax will increase the marginal cost of online shopping as illustrated by an upward shift of the MPC curve from MPC to MPC+tax.
- Consumers will thus consume online shopping at MPB=MPC+tax, thereby decrease their consumption from Qp to Qs as illustrated in Figure 4.
- As Qs is the socially optimal output where allocative efficiency is achieved and there is no welfare loss, the market failure is addressed.
- Thus, taxation discourages excessive online shopping so as to reduce their MEC to reduce the tax they have to pay.



 Regulation / Legislation to reduce the use of single-use plastics in packaging might tak longer time to achieve success in this case as it will effectively force the firms to reduce stop the use of single-use plastics. However, government has to ensure that businesses have the ability to switch to or materials which are more environmentally friendly but not at the expense of their profitabilit. It is stated in Extract 4 that online shopping has become such a key driver of China's dome economy, especially during the pandemic, that authorities have been reluctant to institute ruthat could hurt the industry. 			
L2	For an answer that demonstrates knowledge, understanding, application and analysis:		
5-7 marks	At least GOOD breadth that considers the following economic concept in explaining multiple and balanced perspectives, viewpoints relationships and factors. MOST points chosen should be of relevanc and significance in answering the question.		
	At least GOOD depth in economic analysis that reflects the following i MOST explanations. ✓ Accurate use of economic concepts, clear elaboration, and precise		
	The answer should also be supported by: Well-labelled and well-referred to diagram(s) drawn with precision (where appropriate). Relevant examples and accurate use of facts. Logical structure.		
L1 1-4 marks	For an answer that demonstrates knowledge but lacks understanding, application an analysis:		
	INSUFFICIENT breadth that considers the following economic concepts. Point(s) chosen may be of relevance but may not be of significance i answering the question.		
	INSUFFICIENT depth in economic analysis that may reflect the following .		
	 Lack of accuracy in the use of economic concepts, lack of clarit in elaboration, and lack of precision in the use of economi terminologies, language and phrasing. 		
	The answer should also be supported by: Diagram(s) that may not be well-labelled, may not be well-referred to an may not be drawn with precision (where appropriate). Example(s). Logical structure.		

E2 2-3 marks	 For an evaluation that contains A synthesis of earlier economic arguments to arrive at relevant judgements/decisions (i.e. answer the question). Well-explained criteria-based evaluative comments supported by accurate and clear analysis to provide fairness in views. A good summative conclusion.
E1 1 mark	For an evaluation that contains Relevant but unexplained evaluative judgement(s) / statement(s) i.e. evaluative judgement(s) / statement(s) not supported by analysis. OR A relevant conclusion.
	[Total: 30]