National Junior College Economics Department

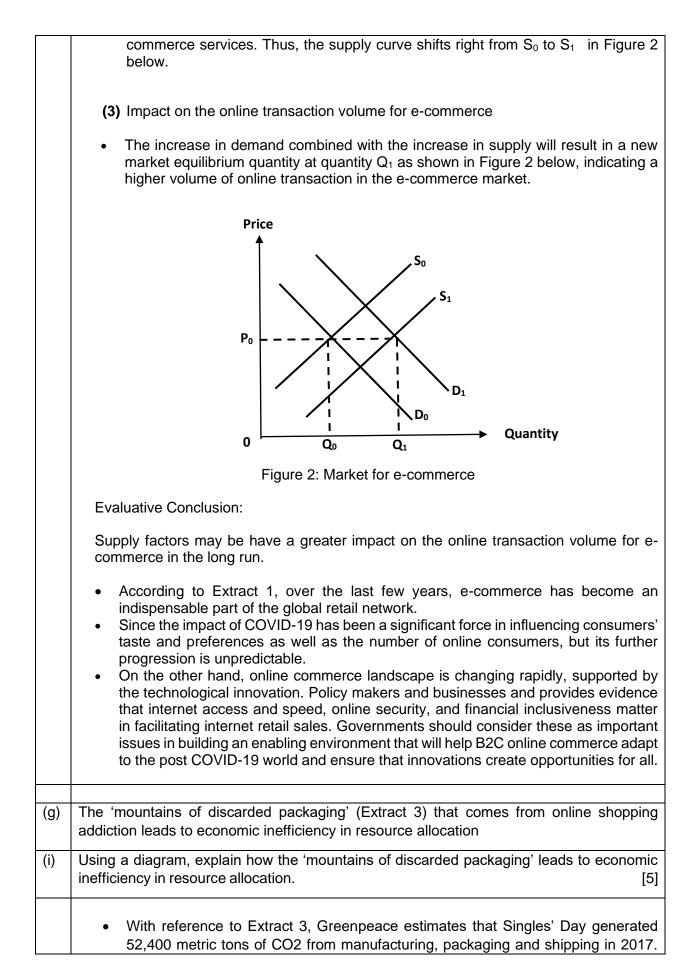
Preliminary Examination 2022 Paper 1 Answer Booklet (Students' Version)

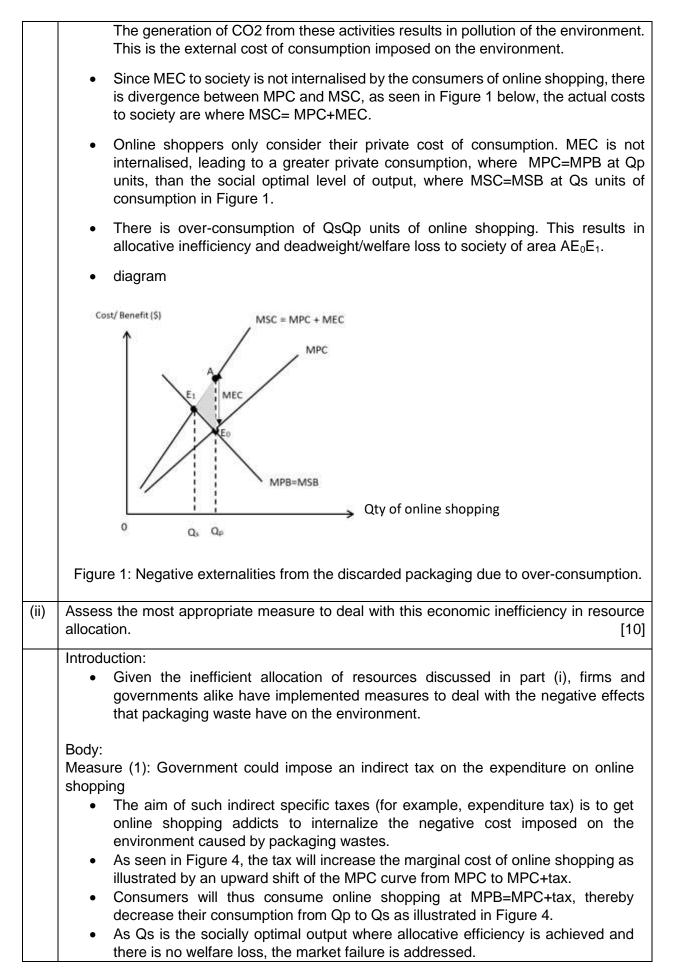
> Senior High 2 H1 Economics (Syllabus 8823)

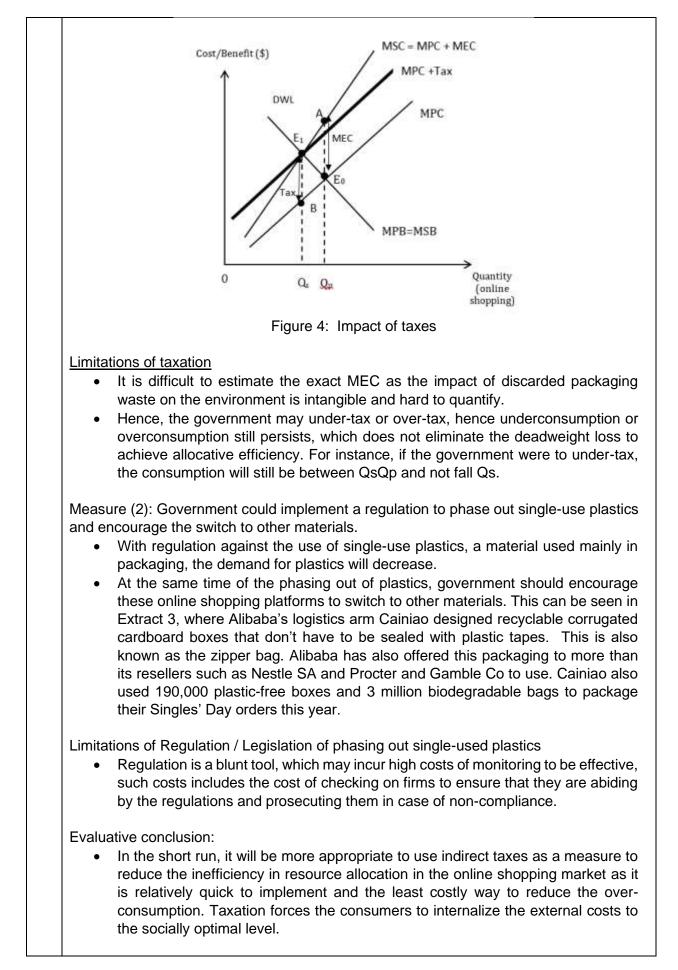
Suggested Answer Outline and Examiners' Comments: Case Study Question 1

(a)	Compare the relative change in the retail revenue for Amazon, Walmart and Home Depot
(a)	in 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 largest increase (2,800%), followed by The Home Depot (466%) and Walmart (90%).
(b)	Using a diagram, explain how the rapid adoption of internet access impact a country's production possibility curve. [5]
	 The rapid adoption of internet access worldwide would mean a rapid improvement in technology by firms in the economy as well. This would result in an increase in both the quantity and quality of capital resource in Singapore. Firms that rely on technology (internet access in their production) will be able to produce more output.
	 The expansion of Singapore's production possibility curve can be illustrated by a skewed outward shift of Singapore's PPC from PPC₀ to PPC1 as shown in Fig. 1. Diagram.
	Non- technology related goods
	PPC1
	0 PPC0 Technology-related goods
	Fig 1: Production Possibility Curve
(c)	Identify and explain the two main characteristics of a public good, and comment on whether these are likely to be possessed by the Wi-Fi services provided by telecommunications firms. [6]
	 Explain A public good are goods or services that have the features of non-rivalry and non-excludability.
	 Define non-rivalry: non-rivalry means that the consumption of the good by one person does not reduce/diminish the benefit of the good available to others. Define non-excludable: non-excludability means that it is technically impossible or
	economically unfeasible to exclude anyone from the benefits of the good once it is provided.
	 Comment The services provided for Wi-Fi access may not possessed the characteristics of non-rivalry and non-excludability.

	 The Internet is technically rivalrous in the sense that the computer networks on which it depends (its "physical layer") accommodate a finite amount of traffic. Wi-Fi access is excludable since the users must pay for Internet access via the subscriptions, they pay for the services provided for Wi-Fi access by the telecommunications firms in the country.
(d)	Explain the likely value of the price elasticity of supply (PES) for the services provided by online retailers. [2]
	 The likely value of PES for the services provided by online retailers is likely to be more than 1. This could be explained by the durable nature of the products offered by these
	online retailers, namely, e-retail, computing services, consumer electronics which allows the online retailers to easily stock up and keep the stocks of good available.
(e)	Using a relevant elasticity concept, explain how Amazon's differentiation strategy 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 and this has the effect of changing the taste and preferences of consumer towards the services provided by Amazon, leading to an increase in demand for their services. The increase in demand leads to a new equilibrium where price and quantity will increase. 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 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.
(f)	Using information from Extract 1, discuss whether demand factors or supply factors have a greater impact on the online transaction volume for e-commerce in the long run. [10]
	 Introduction: The impact on the online transaction volume for e-commerce in the long run will be discussed by an analysis of the demand and supply factors affecting online e-commerce transactions. Body: (1) Demand side factor – Changes in consumers' taste and preferences and increase in the size of digital consumers.
	 Consumers' taste and preferences can change over time. Taste and preferences can be affected by the latest developments e.g., the advent of the internet and the ongoing digitalization of modern life, thus changing tastes and preferences favorably towards online shopping. This is illustrated by the rightward shift of the demand curve (from D₀ to D₁) in Fig. 2 below.
	 (2) Supply side factor – Fall in the costs of relevant resources For firms providing online retailing, internet access and services could be seen as one of their factors of production. The fall in the price of internet access will in turn lead to a fall in their cost of production, hence increasing the market supply of e-

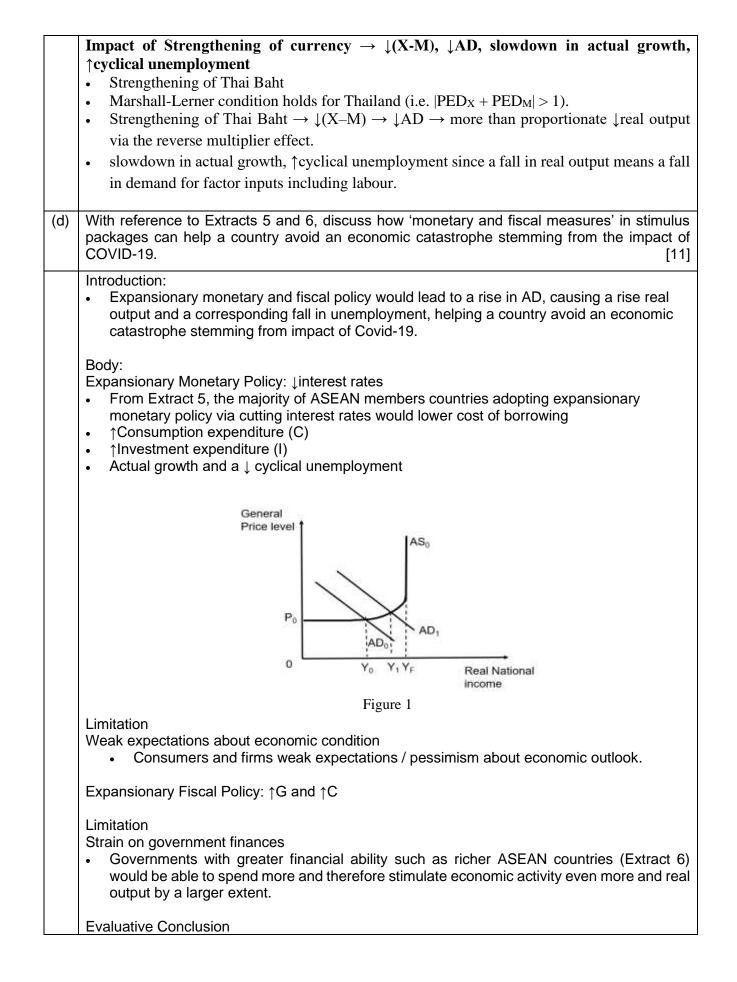






Suggested Answer Outline and Examiners' Comments: Case Study Question 2

(a)	Using Table 2, compare the real GDP growth rate and unemployment rate in the US and Germany over the period 2017 to 2020. [2]
	 Real GDP growth fell for both US and Germany. Unemployment rate increased for both US and Germany.
(b)	With reference to Extract 4 and Table 2:
(i)	Explain why 'unemployment levels varied dramatically across the countries' and comment whether the data in Table 2 for the year 2019–2020 supports the expected relationship between real GDP growth rate and unemployment rate for the US and Germany. [8]
	Explain: Differences in government's response. From Extract 4, Germany's government-backed schemes kept workers in their jobs'. On the other hand, the US government paid out unemployment benefits to workers who have lost their jobs, further intensifying the loss of jobs.
	Comment: From Table 1 the data observed for the year 2019-2020 supports the expected relationship between real GDP growth and unemployment rate for the US and Germany i.e a fall in real GDP growth causes a rise in unemployment rate. However, in the US the fall in real GDP growth of 1.3% is relatively smaller than the rise in unemployment rate at 4.4% compared to Germany where the fall in real GDP growth is higher at 4.3% but unemployment rate is lower at 0.7%.
(ii)	Explain two consequences of 'unprecedented levels of government stimulus' on living standards. [4]
	 Material SOL (2m) If a govt raises tax rates to finance its unprecedented levels of government stimulus, this means a fall in disposable income → fall in material SOL
	Non-Material SOL (2m)
	The unprecedented levels of government stimulus could mean a rise in transfer payment to households so to alleviate the stress brought on by uncertainty in job security due to COVID-19 \rightarrow rise in non-material SOL.
(c)	Using AD/AS analysis and Extract 5, explain how 'degradation in land quality' and 'a strengthening currency' are likely to have impacted Thailand's economy in both the short-run and long-run. [8]
	 Impact of degradation in land quality → ↓SRAS, ↑GPL degradation in land quality would lead to ↑cost of production ↓SRAS →↑GPL → ↓LRAS ↓Potential growth degradation in land quality lead ↓ Quantity of arable land for crop cultivation of sugar and
	rice.↓ Potential growth



	Both expansionary Fiscal Policy and Expansionary Monetary Policy will bring about a rise in real national output and stimulate economic activity, helping a country avoid an economic catastrophe stemming from the impact of Covid-19.
(e)	Extract 5 mentioned there are government policies designed to support the growth of the digital economy.
	Discuss the extent to which growth in the digital economy can achieve inclusive growth. [12]
	 Thesis: Growth in the digital economy can achieve inclusive growth rise in investment expenditure (I) and government expenditure (G) leads to an ↑aggregate demand (AD) → actual growth and fall in cyclical unemployment. more employment opportunities, narrowing of the income inequality gap Growth in the digital economy can achieve inclusive growth.
	 Anti-Thesis: Growth in the digital economy may not achieve inclusive growth Structural shift towards the digital technology means a change in the nature of existing jobs. If lower skilled workers do not reskill or upskill lead to structural unemployment. Income inequality widens
	 Evaluative Conclusion To a large extent, growth in the digital economy can achieve inclusive growth. employment opportunities should be created for all segments of the population. The government could adopt supply side policies