## Data Response Rubric

## A. Define the following terms

I. Merit goods [2 marks]

0	1	(2)
Wrong definition	The idea that it is a good that has positive side effects or is beneficial	An explanation that they are goods or services considered to be beneficial for people (society) that would be under-provided by the market and so under-consumed.
Comments:		

## II. negative externalities [2 marks]

0 1		(2)				
Wrong definition	The idea that they are "bad" effects of the production process.	An explanation that they are the costs suffered by a third party when a good or service is produced or consumed. (Produced on its own is enough.)				
Comments:		*				

B. Using an appropriate diagram, explain how excessive use of private transport and the resulting traffic congestion is an example of market failure. [4 marks]

0	1	2	3	4
Inappropriate answer	For drawing a demand/supply diagram of privitansport showing two demand curves (MSB a with MPB to the right of MSB and one supply (MSC) with the vertical separation or shaded volss area identifying the negative externality (congestion) or for providing an explanation the costs of traffic congestion are external costs at third parties. Traffic congestion is an example market failure because its costs are borne by slarge rather than by road users. (OR because the amount of private transport determined by the exceeds the optimal amount.)	nd MPB) curve velfare craffic at the ffecting of society at he	For drawing a demand/supply dia transport showing two demand or with MPB to the right of MSB and (MSC) with the vertical separation area identifying the negative exterongestion) and for providing and costs of traffic congestion are extithird parties. Traffic congestion is failure because its costs are borner ather than by road users. (OR be private transport determined by toptimal amount.)	urves (MSB and MPB) one supply curve or or shaded welfare loss rnality (traffic explanation that the ernal costs affecting an example of market by society at large cause the amount of

C. Using an appropriate diagram, explain how a decision to provide free public transport is likely to impact on the market for cars in Melbourne. [4 marks]

Inappropriate answer For drawing a demand and supply diagram for the car For drawing a demand and supply d	
Inappropriate answer  For drawing a demand and supply diagram for the car market in Melbourne which shows a shift to the left of the demand curve or for providing an explanation of the fact that public transport is a substitute for private cars and so a fall in the price of public transport will lead to a fall in the demand for cars.  For drawing a demand and supply d market in Melbourne which shows a the demand curve and for providing the fact that public transport is a su cars and so a fall in the price of public transport will lead to a fall in the demand for cars.	a shift to the left of g an explanation of bstitute for private lic transport will

D. Using information from the text and your knowledge of economics, evaluate a decision to provide free public transport in Melbourne.[8 marks]

U	1	2	3	4	5	6	7	8
No valid discus-sion	recognized	ant concepts d. Little discussion or understanding	develope	concepts recogr d in reasonable at application an	depth. Some	reasonat evaluatio	concepts deve ole depth, demo on, supported b or theory.	onstrating effective

Commer	nts:				
Positive impacts may include:		Negative impacts may include:			
	it would boost demand for public transport services reduced negative externalities including pollution,		additional costs to the government of providing free transport of \$340 million a year		
-	traffic congestion, greenhouse gases and road accidents		opportunity costs of the other services that could be provided		
	it would boost demand for services located near public transport		it may not be price that is the main determinant of demand for public transport		
	it would boost the quality of life in Melbourne		neglects the reasons other than price why many people		
	it would reduce the cost of travel for consumers		do not use public transport e.g. convenience, flexibility,		
	reduced wear on road system		travel time and safety		
	it would boost employment in the public transport sector		it would not make public transport more attractive for those who live in suburbs with no public transport at all		
	any reasonable answer.		neglects more effective strategies such as high services frequencies, central coordination of timetables, traffic priority for trams and buses, and a conspicuous staff presence		
			neglects possible government revenue and lower costs if		
			the alternative strategies are adopted		
			taxes may be raised to fund the increased expenditure		
			reduced demand for taxi services		
			reduced demand for new and used cars		
			reduced employment in the car industry		
			any reasonable answer.		

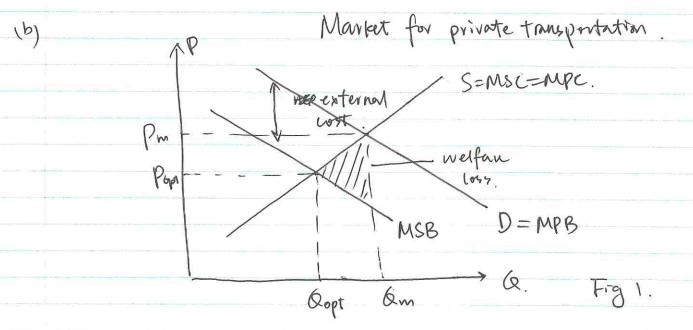
Do not award more than [5 marks] if the answer does not contain some reference to the information provided in the text.

## Effective evaluation may be to:

- ☐ consider short-term versus long-term consequences
- examine the impact on different stakeholders
- discuss advantages and disadvantages
- prioritize the arguments.

clear, effective reoranses

- (a) (i) Merit goods are goods whose consumption produces
  positive consumption externalities. They are socially
  desirable but always underproduced and under consumes
  by the mark. It thus requires government intervention.
  - or production of agood leads to extra cost to third parties that are not involved in the transation and whose interests are not taken into consideration.



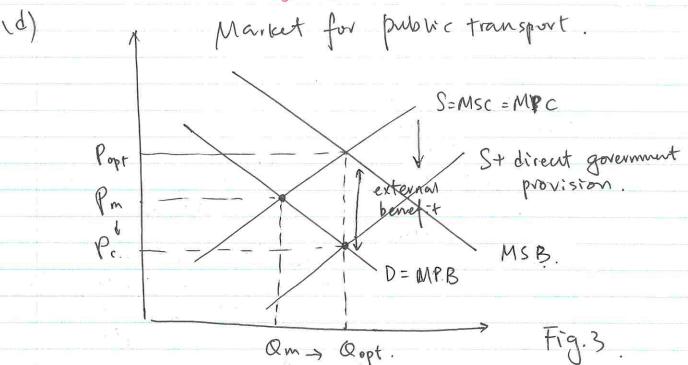
As shown in Fig 1, MPB is to the right of MSB, meaning that MSB is less than MPB, and there exist I external costs due to the consumption of private transportation. When MPC=MPB, At Pm, MPC=MPB, Qm is produced at the equilibrium. However, consumers haven't taken into consideration the external costs involved, which is traffic congestion. Traffic congestion can lead to inconvenience for third parties who are not driving the car, for example, by motors, buses, etc. Because if these negative

externalities, the society desires less private transportation. At a lower price Popt, MGC = MSB, Ropt < Qm. By taking all parties into allocative efficiently of the market. The welfare loss due to this market failure is illustrated in shadow, indicating allocative inefficiency of the aborent monkers.

Market for cars.

Because public trasporter is an substitute to convs, which means they serve similar purpose, when the price of public transport de creases, the demand for it in creases, because people who uses car will smitch to its cheaper alternative. As a result, the demand for cars decreases, as shown in tig 2, Di shifts leftward to Dz. As The original price Consequently, price drops from of cars drops from Q1 to Q2. So the price and quantity of cars would be areace because the 'shallent demand.

\* Because of Hs "low cross elasticity of demand"



In a free nowbut, there for public transport, MSB > MPB, as so there are external benefits of consumption. Qm < Qopt. Pm < Popt. However, where government provide free public transport, the supply curve shifts downward. Maker's to the Quantity shifts from Qm to Qopt. and price is conserved from Pm to Pc. Therefore, the open optimum quantity is achieved from a month.

This method is effective in that it can correct the market failure du to external consumption benefit. Since according to (i), free public transport lower the demands for cars, public transport has the external benefit of reducing traffic transport has the external benefit of reducing traffic forgestion, pollution greenhouse gases and road accidents. Therefore, this free provision makes the society better off by eliminating the welfare loss due to external benefit that can be derived.

In addition, free problec transport nakes people better off and improves their civity standard. Be cause it "would also transform... a happer place to live" (paragraph B). These More over, so because of free provision, pc is lower than Potp, it avoid the problem that Gome people nay not afford it, and makes it accessible to everyone, reducing inequality. Therefore, over all, people's living standard improves and there is economic development.

transport is really costry for the government, as it named cost "about \$340 milnion a year" (1).)

This money are collected from people, which means people might pays a migher tax and have more financial burden, especially on those whose don't use public transport.

After Morcover, Spending these money on public transport means less spending on other tings wike education and health can, which are more imported.

Therfore, the free provision involves a cot of opportunity uest and costs a lot for government.

Alternatively, the government can focuses more on improving service rather than lower prices. As mentioned in the text, people may not affected a lot by the earmonic factor, but non-financial parriers. like inconvenency. First Also, by improving the services, it is men beneficial in the long run, and people would be more withing to

use public transport, the positive externality is thus smaller. However, by providing free transport, government has to spend a but of money every year, which may not be practical in the long run. Therfore, improvey service sees is not effective and less astly in the long run.

Even though free trasport is an effective measure to correct and the new ket failure and thus improve people's living standard and promot and economic development. It may not work in the way run and can be very westry. Constitution when the government is norking a decision, it should also consider non-finish factors. like jupper services.

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