PENANG SANGAM HIGH SCHOOL

YEAR 13

ECONOMICS

WORKSHEET 2

Question 1

Microeconomics

Use the information given below to answer the question.

Quantity consumed (cups of tea)	Total utility	Marginal utility
1	20	20
2	35	15
3	45	10
4	50	5
5	50	0
6	45	-5

1. At what level of consumption will the consumer maximise utility if the price of a cup of tea is \$5. (1m)

- 2. State the **optimal purchase rule** using standard notations. (1m)
- 3. **Differentiate** between total utility and marginal utility? (1m)

Question 2

A garment factory in Rakiraki produces shirts and sells it at **\$30** each. Each worker's wage is **\$90** per day.

Number of labour employed	Output per week	MPP	MRP
1	9	9	270
2	17	8	240
3	22	(i)	150
4	25	3	(ii)
5	26	1	30

(i) Calculate the missing values (i) and (ii). (2 m)

(ii) How many workers should the firm hire? Give a reason for your answer. (2 m)

(iii) In which **economic period** does the Law of Diminishing Returns sets in? (1 m)

Question 3

Study the equations given below and your knowledge to answer the questions

(where price is given in dollars per USB and quantity in USB units)

- i. Equate the equations to determine the efficiency price and output level? (2 m)
- ii. Draw and label the demand and supply curves for USB on a pair of axis? (2 m)