Questions on Production 1

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- 1. What is the characteristic of *short run* production?
 - A. The relationship between the industry and the final product.
 - B. That there is one fixed factor of production
 - C. The planning horizon of the business
 - D. The period during which the firm must report its profits.
- 2. The slope of any line between the origin and the total product curve is
 - A The way to find the maximum product
 - B The average product
 - C The maximum marginal product
 - D Impossible to draw
- 3. The marginal product of labour is
 - A Total output produced by labour
 - B The change in total output from a small change in labour
 - C Total output less the cost of inputs
 - D The total cost of labour divided by its output
- 4. Which of these describe the production function
 - A It shows the technological relationship between inputs and outputs
 - B It expresses the relationship between costs and revenues

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- C It identifies the characteristics of a particular technology
- D It helps firms to maximise profits
- 5. The relationship between total fixed cost and total variable cost is
 - A Stable
 - B Narrowing over time
 - C Widening over time
 - D Zero
- 6. Which of the following are examples of fixed costs
 - A The electricity bill
 - B Wages
 - C Gym membership
 - D Petrol
- 7. Which of the following are factors of production?
 - A Land
 - B Labour
 - C Capital
 - D Technology
- 8. What is happening diminishing returns
 - A Marginal Product is positive and rising
 - B Marginal Product is postive but falling
 - C Marginal Product is falling and negative
 - D Marginal Product is constant
- 9. Please fill in the gaps in the following table that outlines the Total Physical Product (TPP), Average Physical Product (APP) and Marginal Physical Product (MPP) of a short-run production function with different levels of labour input.

Labour Input	TPP	APP	MP
0	0	0	
-	_		5
1	5		7
2	12	6	1
_			
3	20	6.67	
4	25	6.25	3
5	28	5.6	9
9	20	0.0	2
6		5	
7	30	4.29	
8	28		
0	20		-3
(9		2.78	
			-5
10		2	

- 10. When you have completed the table, please plot the TPP and APP functions on a graph.
- 11. From the TPP curve, identify those points that represent the maximum and zero point of the MPP curve.