

ECONOMIC DEPARTMENT

Quiz #2 Econ3311 Muhammad Amreyeh Student Name: Abd-aluter + Mari Student Number: 1200 17 1. Suppose a firm's short run cost curves were found to be: $TC = q^2 + 4q + 5$, where q is output. What is the firm's AVC to produce 20 units of output? VE St2+hap (a) 480 15224 AVE SKES 9+4 (e) 24.25 2. In the short run: Tat All costs are fixed (b) All costs are variable (c)At least one cost is fixed (d) The marginal cost curve intersects the average fixed cost curve at its lowest point 265 S 1000 \$200 3. Output for a simple production process is given by $\overline{A} = 4KL$. The price of capital is \$20 per unit and capital is fixed at 5 units in the short run. The price of labor is \$8 per unit. What is the total cost of producing 100 units of output? (a) \$60 (7)\$140 (c) \$540 (d) \$100 (e) \$32 TC 5 \$ 100 + 8L 5 1017 825 4. If w = r, then when the producer minimize cost -140 (a) & must equal K. MPL SMELS W B MPL myst equal MPK $(c) \approx MRT = 1$ (d) Kend L must be inputs substitutes. 5. Suppose a production function is given by $\alpha = K\sqrt{L}$ The price of capital is \$10 and the price of labor is \$16. The capital is fixed at the level K = 8. What is the total cost function of the firm? (c)TC= $4q^2 + 80$ (d) TC = $\frac{q^2}{4} + 80$ (a) $TC = 16q^2 \div 80$ (b) $\overline{TC} = \frac{q_2}{4}$ 9,58VL TZ580+16L : q2 = 64L : L : q2 : L : q2 = 80 + 1692 = 80 + 92 61.