EC 313, Summer 2019 Xiang LI (GE)	Name:
Chapter 23 - Practice	UO ID:
QUESTION 1: TRUE, FALSE	
(1) Fighting inflation should be the Fed's onl	ly purpose.
(2) Inflation and money growth moved togeth	her from 1970 to 2009.
(3) Most central banks around the world hav	ve an inflation target of 4%.
(4) The Taylor rule describes how central ban	aks adjust the policy interest rate across recessions and booms.
(5) The zero lower bound on the nominal populicy when inflation targeting began.	olicy rate was ex-pected to be a regular feature of monetary
(6) Quantitative easing refers to central bank yield on these assets.	purchases of assets with the intention of directly affecting the
QUESTION 2	
	4 is $\frac{M}{P} = YL(i)$. The central bank in conjunction with the π^* .
(1) Derive the target nominal interest rate in	
(2) Consider medium run equilibria where p money growth and inflation. Explain.	potential output does not grow. Derive the relation between

(3) Now consider medium run equilibria where potential output grows at 3% per year. Now derive the relation between money growth and inflation. Do you expect inflation to be higher or lower than money growth? Explain.

(4)	Consider Figure 23-1, which is on the page 10 of lecture slide. Look first at the period ending in roughly 1995. How do your results in parts (2) and (3) relate to it?
(5)	Focus on the case where all money is currency. We can then think of money demand as being the demand for currency. Over the past 50 years:
(i)	Automatic tellers have allowed cash to be dispensed outside of regular banking hours.
(ii)	The use of credit cards for purchases has greatly expanded.
(iii)	The use of debit cards for purchases has greatly expanded.
(iv)	Most recently, technology has allowed for small purchases by credit and debit cards by waving the card over a pay-ment terminal near the cash register.
How	would each of these innovations affect the demand for currency?
\mathbf{QUI}	ESTION 3
Consider a central bank that has an inflation target π^* . We studied two versions of the Phillips curve in Chapter 9. The general Phillips curve is $\pi_t - \pi_t^e = -\alpha(u_t - u_n)$. The first version of the Phillips curve in Chapter 9 was $\pi_t - \pi_{t-1} = -\alpha(u_t - u_n)$. The second version of the Phillips curve in Chapter 9 was $\pi_t - \bar{\pi} = -\alpha(u_t - u_n)$.	
(1)	How are the two versions of the Phillips curve different?
(2)	In either version, in principle, the central bank is able to keep the actual rate of inflation in period t equal to the target rate of inflation π^* in every period. How does the central bank carry out this task?

(3)	Suppose the expected rate of inflation is anchored (does not move) and equal to the target rate of inflation, that is $\bar{\pi} = \pi^*$. How does this situation make the central bank's task easier?
(4)	Suppose the expected rate of inflation is last period's rate of inflation rather than the target rate of inflation. How does this make the central banks task more difficult?
(5)	Use your answer to parts (3) and (4) to answer the question: Why is central bank credibility about the inflation target so useful?
(6)	In part (2), we asserted that the central bank could always hit its inflation target. Is this likely in practice?
(7)	One specific problem faced by the central bank is that the natural rate of unemployment is not known with certainty. Suppose the natural rate of unemployment u_n changes frequently. How will these changes affect the central bank's ability to hit its inflation target? Explain.