PBIO 294 In Class Evaluation 4 Oct 2017

Chapter: K 6

Name:

1.     p(y|θ) = θy (1- θ)(1-y) is the equation for what pdf/pmf? 2 points

2. In question 1, if y is fixed and we vary θ, then what do we call this function? 2 points.

3. When the forms of p(y|θ) and p(θ) combine so that the posterior distribution has the same form as the prior distribution, then p(θ) is called a conjugate prior for p(y|θ). TRUE or FALSE. (Circle one). 2 points.

4. A beta prior distribution is conjugate to a binomial likelihood. Is this a true statement? Explain. 2 points.