**Question 1**

We can think of it as a single word if we consider a mathematical expression is a single word.

O we can consider every number and operator as word

Above of the both cases are applicable for mathematics

For literature domain, above mentioned expression will be counted as not a real word.

**Question 2**

1. **P(why|<s>)P(do|why)P(you|do)P(</s>|you)**

**Since the sentence is complete, we have to consider both start and end of a sentence**

1. P(why)P(do|why)P(you|do)

**Since the sentence is middle of a conversation, we will not consider any of start and end of a sentence**

1. P(why|<s>)P(do|why)P(you|do)

**Since the sentence start is known and end is unknown, we have to consider only the start of a sentence**

**Question 3**

**P(I) = 3/20**

**Question 4**

P(I|<s>) = 2/3

P(am|I) = 2/3

**Question 5**

P(Ga) = 4/5

P(Bu) = 1/5

V = 2  
N = 3

C(Ga) = 3  
C(Bu) = 0

**Question 6**

**P(Ga|Bu) = 2/5**