1. What does an empty dictionary's code look like?  
d=dict{}

2. What is the value of a dictionary value with the key 'foo' and the value 42?  
d=dict{‘foo’:42}

3. What is the most significant distinction between a dictionary and a list?  
dictionary is unordered while list is ordered sequence of sets. The items access in dictionary by key value while in list by position.

4. What happens if you try to access spam['foo'] if spam is {'bar': 100}?  
key error

5. If a dictionary is stored in spam, what is the difference between the expressions 'cat' in spam and 'cat' in spam.keys()?  
no difference because in operator check whether value is exists or not.

6. If a dictionary is stored in spam, what is the difference between the expressions 'cat' in spam and 'cat' in spam.values()?  
‘cat’ in spam will check whether a key is exists in dictionary or not while ‘cat’ in spam.values() will check whether the values is exists in dictionary or not.

7. What is a shortcut for the following code?

if 'color' not in spam:  
 spam['color'] = 'black'

spam.setdefault(‘color’,’black’)

8. How do you "pretty print" dictionary values using which module and function?  
pprint.pprint()