1. What does an empty dictionary's code look like?

Dictionary = {}

2. What is the value of a dictionary value with the key 'foo' and the value 42?

Key = ‘foo’

Value = 42

{‘foo’: 42}

3. What is the most significant distinction between a dictionary and a list?

Dictionaries are represented by {} where as listed are represented by []  
The Items stored in a dictionary are Unordered , while the items in a list are ordered

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

A KeyError will be raised as key=’foo’ is not present.

5. If a dictionary is stored in spam, what is the difference between the expressions 'cat' in spam and 'cat' in spam.keys()?

it checks weather 'cat' is present in dictionary as a key.

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 checks whether there is a 'cat' key in the dictionary, while 'cat' in spam.values() checks whether there is a value 'cat' for one of the keys in spam

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?

###### module = pprint

###### function = pprint.pprint()