

Practice Questions for Chapter 5 – Dictionaries and Sets

1. Dictionary Access and Update

- Create a dictionary `student` with keys `"name"`, `"age"`, and `"subjects"` where `"subjects"` is a list of subject names. Update the age and add a new key `"grade"` with a value.

2. Using Dictionary Methods

- Given a dictionary `contacts = {"John": "123-456-7890", "Jane": "987-654-3210"}`, add a new contact `"Bob"` with the phone number `"555-555-5555"` and print all keys in the dictionary.

3. Set Operations

- Create a set `colors` with values `"red"`, `"blue"`, and `"green"`. Add a new color `"yellow"`, remove `"blue"`, and print the updated set.

4. Combining Dictionaries

- Given two dictionaries `dict1 = {"a": 1, "b": 2}` and `dict2 = {"b": 3, "c": 4}`, combine them into a new dictionary and print the result.

5. Set Union and Intersection

- Given two sets `set1 = {1, 2, 3}` and `set2 = {3, 4, 5}`, find the union and intersection of these sets and print the results.