Git review

Quiz, Form: A

Section 1. Basic concepts

Match the following concepts with their definitions.

_____ repository

_____ working tree

_____ commit

_____ branch

_____ remote

_____ merge

_____ tag

_____ staging area

_____ push and pull

(a) a pointer to a particular commit

(b) joins two or more development histories together

(c) a DAG of commits with additional information (e.g., branches, tags, remotes)

(d) directory containing the files you are currently working on

(e) used to synchronize repositories

(f) a pointer to a particular commit, which moves forward as you commit

(g) a full snapshot of a working tree

(h) another repository whose branches your repository tracks

(i) where snapshots of changes are placed before they are committed

Section 2. Short Answer

Please explain what each of the following terms means.

1. `HEAD`

2. `master`

3. `origin`

Please answer the following questions.

4. Which of the above terms are fixed and which are used by convention?

5. What `git` command would you use to see what `master` specifically refers to in one of your repositories?

6. What `git` command would you use to see what `origin` specifically refers to in one of your repositories?

You are working on a team project. You have forked the main project repository, and cloned your fork. This automatically gave you a remote called `origin` that points to your forked repository. You added a remote called `upstream` that points to the main project repository.

Overnight, your eager team members have merged some work to the main repository, therefore updating the `master` branch of the main repository. Today you want to do some work on a new branch that starts off at the new position of `master` on the main repository.

7. What command(s) would you type to start working in a new branch named `more-work` that starts at the new position of `master` in the main repository?

8. You have done some commits on your new branch `more-work`. What command(s) would you type to replicate this your new branch to your own fork on Github?