Git review

Quiz, Form: A

Section 1. Basic concepts

Match the following concepts with their definitions.

_____ push and pull

_____ merge

_____ commit

_____ repository

_____ remote

_____ tag

_____ branch

_____ working tree

_____ staging area

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

(b) joins two or more development histories together

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

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

(e) a full snapshot of a working tree

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

(g) a pointer to a particular commit

(h) used to synchronize repositories

(i) another repository whose branches your repository tracks

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?