## **Multiple-Choice Questions**:

1.		of these Git client commands creates a copy of the repository and a working directory in the workspace. (Choose one.)
	a.	update
	b.	checkout
	c.	clone
	d.	import
	e.	None of the above
2.		False? In Git, if you want to make your local repository reflect changes that have been made note (tracked) repository, you should run the pull command.
	a.	True
	b.	False
3.		which error would you get if you try to push master-branch changes to a remote repository, meone else pushed changes to that same branch while you were making your changes? (Choose
	a.	Rejected
	b.	404
	c.	500
	d.	Access denied
	e.	400 Bad request
4.	-	want to make radical changes to your team's project and don't want to impact the rest of the rou should implement your changes in
	a.	a tag.
	b.	the trunk.
	c.	the root.
	d.	a branch.
	e	None of the above

5.	Imagine that you just joined a development team that uses Git for version control and collaboration. To start contributing to the project, what Git operation would you most likely invoke first?	
	a.	checkout
	b.	clone
	c.	export
	d.	revert
	e.	update
6.		magine that you have a local repository, but other team members have pushed changes into the repository. What Git operation would you use to download those changes into your working
	a.	checkout
	b.	commit
	c.	export
	d.	pull
	e.	update

## **Solutions**:

- 1. c
- 2. a
- 3. a
- 4. d
- 5. b
- 6. d

Problem:
Consider the following scenario involving Git. Alice and Bob are both working on a shared project <b>My-Proj</b> that is stored in a remote Git repository. Bob does a <b>clone</b> on the remote repository. What two things does Git create when Bob issues the <b>clone</b> command?
Next, Bob edits the <b>MyProj</b> file <b>foo.rb</b> . Then, he does a <b>commit</b> and a <b>push</b> . What does Git do when Bob issues these commands?
Next, Alice does a <b>clone</b> on <b>MyProj</b> . Then, Alice and Bob both edit <b>foo.rb</b> in parallel. foo.rb has over 100 lines of code. Alice edits a couple lines at the top of the file, and Bob edits a couple lines at the bottom of the file. Then, Bob does a <b>commit</b> and a <b>push</b> . Finally, Alice does a <b>commit</b> and a <b>push</b> . What does Git do when Alice issues the <b>push</b> command?
What Git commands should Alice issue next and what would the result of the command be?

## Solution:

Consider the following scenario involving Git. Alice and Bob are both working on a shared project **My-Proj** that is stored in a remote Git repository. Bob does a **clone** on the remote repository. What two things does Git create when Bob issues the **clone** command?

When Bob issues the **checkout** command, Git creates a local copy of the **MyProj** repository and a working directory that contains the latest snapshot of the project files.

Next, Bob edits the **MyProj** file **foo.rb**. Then, he does an **add**, a **commit** and a **push**. What does Git do when Bob issues these commands?

The **add** commands "stages" the changes. The **commit** command updates Bob's local repository to reflect the changes. The **push** command updates the remote repository to reflect the changes in Bob's local repository.

Next, Alice does a **clone** on **MyProj**. Then, Alice and Bob both edit **foo.rb** in parallel. foo.rb has over 100 lines of code. Alice edits a couple lines at the top of the file, and Bob edits a couple lines at the bottom of the file. Then, Bob does an **add/commit/push**. Finally, Alice does a **add/commit/push**. What does Git do when Alice issues the **push** command?

When Alice issues the **push** command, Git rejects her push because the remote branch has changed since the last time she pulled from it.

What Git commands should Alice issue next and what would the result of the command be?

Alice should do a **pull** on the remote repository. That will update her current branch in her local repository as well as her working directory. The update will both download the changes in the remote repository and merge them into her current branch. To then upload the merged changes, she would need to do an **add/commit/push**.