1. Which of the following is true about Git?

   (a) In a project involving multiple collaborators, each collaborator can only pull changes from a centrally maintained repository and not from each other

   (b) The versioning of Git is handled at a directory level

   (c) `git add` is used to add files to the local repository directly

   (d) `git commit -a` will commit the snapshot present in the staging area

   (e) After merging a branch to master, one cannot checkout the branch anymore

   Answer: (b)

2. Which of the following are true about GNU make?

   (a) In make, one can reference variables using either $[]

   (b) When using implicit rules in make, you have to specify all the compilation steps in detail

   (c) Adding a `-` before a command will suppress the error associated with that command

   (d) Some targets in make need not have any dependencies

   Answer: (c), (d)

3. Which symbols are correctly mapped? (the dash '-' is the separator)

   (a) `<` - input redirect

   (b) `||` - pipe

   (c) `>>` - output overwrite

   (d) `' '` - command substitution

   Answer: (a), (d)

4. Which of the following expressions is a correct wildcard pattern if we want an expression in which the last character is not numeric?

   (a) `*[!numeric]`

(b) *[0-9]

(c) ∧[!0-9]

(d) *[!0-9]

Answer: (d)

5. Which of the following commands is used to display the only directory that exist in the current directory?

(a) `ls -l | grep '∧d'`

(b) `ls | grep '∧d'`

(c) `ls | grep '*d'`

(d) `ls -l | grep '#d'`

Answer: (a)

6. Which of the following is true of gdb/debugging?

(a) Assertions are controlled by compiler-time symbol `DEBUG`

(b) If an executable is named say `broken`, `gdb broken` will run the program.

(c) If we wish to move from one breakpoint to the next, we have to use `next`

(d) The command `step` will step into function calls

(e) The command `display` is for continuous monitoring of a variable as you step through the program

Answer: (d), (e)

7. Suppose a user has so far used commands in git from the set {`init`, `add`, `branch`} and no other commands. Now he types in `git branch`. Which of the following is true?

(a) The command will indicate there are no branches

(b) The command will indicate there is one branch

(c) The command will indicate there are two branches

(d) The command will result in an error

Answer: (b)

8. Which among the following is true about JavaScript?

(a) Scripts can be placed only in the `<body>` section and not in the `<head>` of a HTML file

(b) Same variable can be used to hold different data types

(c) The keyword `new` is used for object instantiation

(d) The `catch` statement allows you to create custom errors

(e) `innerHTML` is a property of an object in
`document.getElementById(\demo").innerHTML`

Answer: (b), (c), (e)

9. Which of the following is/are true about HTML?

(a) We enclose HTML tags within {}

(b) the`src` tag is used to render an image on a webpage

(c) HTML tags are case sensitive in nature

(d) The `iframe` tag is used to display a webpage within a webpage

(e) the `select` tag defines a dropdown in forms

Answer: (d), (e)

10. Which of the following is/are true about HTML/CSS?

(a) A dot is used to select an element with a specific ID in CSS

(b) The value of the ID attribute is case sensitive

(c) `class` is an attribute as opposed to element

(d) In CSS, internal styling works by using a `<link>` element in the `<head>` section

Answer: (b), (c)