Web Development 2 Midterm Part 1. Multiple Choice. 10pts 1. Which statement executes the code of sample.js file? c. Sample.is a. nodejs sample.js b. node sample.is d. None of the above 2. How can we create an instance of the "express" module? a. const express = require("express"); c. const express = new express(); b. const express = new require("express"); d. None of the above 3. How can we check the current version of NPM? a. npm --version c. npm help b. npm --ver d. None of the above 4. To install Node.js express module a. npm install express c. install express b. node install express d. None of above 5. package.json is used to define the properties of a package? b. False 6. Objects are lists of values similar to arrays, except values are identified by keys instead of integers. a. True b. False 7. Which of the following is not a valid Javascript function statement? a. A function can be declared to receive any number of arguments. b. Arguments can be from any type. c. An argument could be a string, a number, an array, an object and even another function. d. None of above 8. JSON stands for a. Java Standard Output Network c. JavaScript Output Name b. JavaScript Object Notation d. Java Source Open Network 9. What is the git command that downloads your repository from GitHub to your computer? a. git push c. git clone d. git commit b. git fork 10. How do you check the state of your local git repository since your last commit? a. git check c. git commit b. git status d. git diff NOTE: Make sure to update your README.md for your answers here in Part 1 Part 2. True or False. 10pts 1. By committing the staged changes with git commit is the way to save the current state of the code into the git version control. 2. In Express.js, apps can also be mounted to paths that contain a variable by prepending a: to the beginning of a variable name. 3. _____. We utilize the app.use(express.static('public')) script to call and use static middleware. 4. _____. Using to git commit to create empty Git repo in a specified directory and initialize the current directory as a git repository 5. _____. Using git merge to merge
branch> into the current branch. 6. _____. Using git remote to create a new connection to a remote repo. 7. _____. Using git fetch to fetch the specified remote's copy of current branch and immediately merge it into

8. . We use git config --global user.email <name> to define the author name to be used for all

9. _____. We use git push <remote> --all to push all your local branches to the specified remote.

NOTE: Make sure to update your README.md for your answers here in Part 2

10. We use git log to display the entire commit history using the default format.

the local copy.

commits by the current user.

Part 3. Version Control using Git and Github.

Instructions: In this part of the exam, we will restructure our **WEBDEV2** repository and create new repository **midtermexam**. See https://github.com/cbatuic/midtermexam for the complete details.

NOTE: Make sure to update your README.md for your answers here in Part 3

Part 4. Web Server Programming

Using HR Schema, create an express application that displays the query result in two outputs (console and webpage). Consider using aggregate and user-defined function for the following tasks:

Task	Console Script	Slug (URI endpoint)
Write a query to calculate total		<192.168.202.xxx>/lastname/1
number of jobs available.	npm run lastname_part4_1.js	\132.100.2U2.XXX>/1astilame/1
Write a query to compute the		
average salary offered to	npm run lastname_part4_2.js	<192.168.202.xxx>/lastname/2
employees.		
Write a query to display the total	npm run lastname_part4_3.js	<192.168.202.xxx>/lastname/3
salary from the employee table.	npm run rubename_pure i_5.jb	(192.100.202.MM) / Iddelidine/ 0
Write a query to find which		
employee's last name comes	npm run lastname_part4_4.js	<192.168.202.xxx>/lastname/4
first in the alphabet		
Write a query to find which		
employee's last name comes	npm run lastname_part4_5.js	<192.168.202.xxx>/lastname/5
last in the alphabet.		
Write a query to calculate the		(100 160 000) /3 /6
maximum salary of all	npm run lastname_part4_6.js	<192.168.202.xxx>/lastname/6
departments.		
Write a query to determine how	1	<100 100 200 /lastmans /7
many employees are in each	npm run lastname_part4_7.js	<192.168.202.xxx>/lastname/7
department.		
Write a query to determine the	npm run lastname_part4_8.js	<192.168.202.xxx>/lastname/8
average of the maximum	ipm run iastname_part4_6.js	<192.100.202.xxx//lastifalle/o
salaries of all departments. Write a query to show the		
number of jobs available in the	npm run lastname_part4_9.js	<192.168.202.xxx>/lastname/9
employees table.	inpiii luii lascilaiie_palc4_9.js	\192.100.202.XXX//1aSthame/9
Write a query to get the average		
salary and number of employees	npm run lastname_part4_10.js	<192.168.202.xxx>/lastname/10
working the department 90.	inpin rail rabellaine_pare1_10.jb	152.100.202.MM./ 1000Halle/ 10
Write a query to get list of first 10	npm run	
records in employees table	lastname_part4_emp.js	<192.168.202.xxx>/lastname/emp
Write a query to get list of first 10	npm run	100 100 000 /3 / / /
records in departments table	lastname_part4_dept.js	<192.168.202.xxx>/lastname/dept
Write a query to get list of first 10	npm run	1100 160 000
records in jobs table	lastname_part4_jobs.js	<192.168.202.xxx>/lastname/jobs
Write a query to get list of first 10	npm run	<102 160 202
records in locations table	lastname_part4_loc.js	<192.168.202.xxx>/lastname/loc

NOTE: Make sure to update your README.md for your answers here in Part 4

Note: Extra points (at most 20) for those webpages that uses custom style using CSS3.