**Hoffman2 questions**

**Read each question carefully and answer to the best of your ability. Questions may have more than one correct answer.**

1. Briefly (1 or 2 sentences) describe why somebody would want to use Hoffman2.
2. How do you connect to Hoffman2 if you are a
   1. Unix, Linux, or Mac user?
   2. Windows user?
3. Briefly describe the difference between a ‘login node’ and a ‘compute node’. When should you use each of these?
4. How much storage is available in your Hoffman2 home directory? Where can you access additional storage?
5. What will happen to a job that attempts to use more memory than what had been requested?
6. You want to submit a job that requires 4 GB of memory and will complete in approximately 2 hours. Name several reasons why you should **not** request 16 GB and 24 hours of run time.

**For questions 7-10, write down the appropriate commands (there can be more than one right answer!) See the IDRE website if you need help answering any of these questions.**

1. Request a compute node for interactive use; you believe the job requires 12 GB of memory and will take approximately 4 hours to complete.
2. Request a compute node for interactive use; you want 2 CPU cores, 4 GB of memory, and believe the job will take approximately 8 hours to complete.
3. Submit a job; you want to name the job ‘gene\_data\_lasso’, and you want to be emailed **only if the job is aborted**. You want 12 GB of memory, 8 hours run time, and the name of the job is ‘myjob.sh’.
4. Submit a job; this is the same as the job in question 9, with the following changes:
   1. You want to change the working directory to where you currently are in the file system.
   2. You also want to be emailed when the job starts and finishes.
   3. You only want to request 64 MB of memory.