**Sample Questions Set 1**

Q1. Run the following command on your Linux VM and answer the following questions: (4 points)

*sudo docker run -it -d ubuntu bin/bash*

1. Run the above command with *-i* option and explain what happens.

Starts the container in interactive mode, standard input open – no obvious command prompt; this enters into the ubuntu container

1. Run the above command with *-t* option and explain what happens.

Starts the container with terminal prompt within the container, non-interactive

Pseudo-tty

1. Run the above command with *-d* option and explain what happens.

Runs the container in detached mode, container runs in the background and immediately stops.

1. Run the above command with */bin/bash* option and explain what happens.

Runs this process within the container (in this case bash)

Q2. What are the differences between *docker start* and *docker exec*? (1 point)

Docker start activates a container

Docker exec connects to the container via shell

Q3. What happens when you execute run *nginx* container with *-p 8080:80* option? (1 point)

A container is started in the background, opens, uses host port of 8080 which maps to the containers port 80

Q4. What can you do with *docker attach?* (1)

Attach a currently running container to the terminal session, so that commands can be run within the container

Q5. How can you *ssh* into a docker container? (2)

Sudo docker exec -it container\_name /bin/bash (or sh)

Sudo docker attach container\_name (running container)