1. Answer the questions using complete English sentences.

a) Define the term *software*. **(1)**

b) Why is it prudent to make a backup of user data prior to upgrading an operating system? **(2)**

c) What is meant by "booting up" a computer? **(2)**

d) State the primary purpose of an API. **(2)**

e) List at least three tasks an operating system API allows. **(3)**

f) Not only operating systems have APIs. You can also thing of APIs as abstraction layers that hide complexity. List an API that you used while writing Java programs. **(1)**

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g) What are the key benefits for a programmer using an existing API, rather than writing their own code to perform a complex task? **(3)**

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h) What does an operating system do when it is "loading and running applications"? **(3)**

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i) Research and describe drive partitioning, including the legacy MBR (Master Boot Record) standard to the modern GPT (GUID Partition Table) format. **(6)**

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