1) The hard drive is 500 GB, with the DVD’s at 4.7. So $500/4.7 = 106.38$, but you can't have party of a disc, so you need 107 discs to complete the hard drive backup. $107 \times 0.30 = 32.10$ spent to purchase the required amount of discs. $107 \times 10 = 1,070$ minutes, which minutes it will take you almost 18 hours to back the hard drive up, are to be more specific 17 hours and 40 minutes.

2) If each character is on One byte, $300 + 10 + 50 + 100 + 4 + 2 = 466 \times 3.8$ million volumes = 177,080,000 bytes mich equals 1.7 gb, so it will fit on this hard drive with no issues.

3) With 10 m.s. Access time per each volume, and 466 bytes in total, it would take just under a second to complete this.

4) Because is is using a dual processor, and each can do 2.6 Ghz, you then have a total of 5.2 ghz. So, $3.8$ million divided by 5.2 gives you .73. Which means it will take just over a second to complete this.