**Multiple Choice [5 Marks]**

1. Which of the following topics is NOT part of a “Terms of Service” contract?
   1. Potential misuse
   2. Behavior, and conduct
   3. Payment details such as membership or subscription fees
   4. [Opt-out](https://en.wikipedia.org/wiki/Opt-out) policy describing procedure for account termination
   5. Use personal data
   6. Dispute resolution process and limited rights to take a claim to court
2. Which of the following topics is part of a “Privacy Policy” contract?
   1. Proper or expected usage
   2. Accountability for online actions,
   3. Payment details such as membership or subscription fees
   4. [Opt-out](https://en.wikipedia.org/wiki/Opt-out) policy describing procedure for account termination
   5. Use personal data
3. Which of the following features is NOT a part of a Version Control System?
   1. Version tracking and control
   2. Backup and restore
   3. File sharing
   4. Compiler / Verification tools
   5. Access from multiple computers
4. Which of the following is NOT an internal part of a desktop computer?
   1. Power supply
   2. Hard drive
   3. USB memory stick
   4. CPU cooling fan
   5. Sound card
5. Which of the following is NOT part of the motherboard on a desktop computer?
6. Sound card
7. Video card
8. Ethernet Controller
9. Hard drive
10. Main CPU

**Short Answer [30 Marks]**

1. Mrs. Kuhl needs to organize and store the mid-term tests for each department in the school . Each test is a Word file. Each department (e.g. Math, Science, English, etc.) has created a number of tests for each grade (e.g. Grade 9, 10, 11, 12)
2. Create a list of 10 sample test file names related to possible school departments and grades. [2]
3. Create a set of folders that could be used to organize these sample test files. [2]
4. Sort the sample test files into the appropriate folders. [2]
5. Mr. Kuhl also wants to make sure these files are securely backed up and can be shared by the vice principals and office staff. What solution do you recommend? How would you solution be organized to help her meet these objectives? [4]
6. Select any **TWO (2)** of the following case study related questions to answer. Support your response with specific examples from the case study. Each question is worth five marks for a maximum total of ten marks.
   1. How could Ontario society be affected by a “Ransomware Attack” and how can we protect ourselves against such attacks?. [5]
   2. In your opinion, should mobile payments / use of electronic currencies such as Bitcoin be allowed in Canada? Explain some of the pros and cons. [5]
   3. Respond to the comment “isn't there more serious issues to focus on in regards to equity than emojis?” Explain some of the issues and some of the concerns around the use of emojis in social media. [5]
   4. Respond to the comment "when an online service is free, you're not the customer. You're the product". Explain the issues and concerns regarding Facebook and other similar apps. [5]

*Program Specification – For Use With The Remaining Questions In This Section*

The sample Python program implements a number guessing game. Some details are as follows:

* The computer randomly selects a number from 1 to 100. It keeps this information hidden from the user.
* The computer asks the user to guess a number and reads the user move from console input.
* The computer checks the user input to make sure it is valid. The computer prints out an appropriate message if the input was not valid and asks the user to try again.
* The computer prints out: “Guess Higher”, “Guess Lower”, or “Correct!” depending on how the user number compares to the computer number.
* The game continues until the number is guessed correctly or the user types “stop”.

1. List the “input objects” mentioned in the program specification above. [2]
2. List the “output objects” mentioned in the program specification above. [2]
3. Create a list of possible user input errors and the appropriate computer message from the program. [3]
4. Create a flowchart for the action sequence described above. [3]