

# CS2022 ASSIGNMENT 2 (Due Date: Sep 16, 2022)

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**Instructions:** This assignment consists of two parts. Part I consists of ten logical questions. Part II consists of ten MC questions. You have to answer all of them. Put your answers in a MS WORD file, or other word processing file, and then submit the file to the course Gmail account.

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## PART I: Logical Questions

The questions in the part are logical questions. In each question, two statements **X** and **Y** are given. You need to select one of the following options for your answer.

- (a) Both statements **X** and **Y** are not true.
- (b) Statement **X** is true. Statement **Y** is not true.
- (c) Statement **X** is not true. Statement **Y** is true.
- (d) Both statements **X** and **Y** are true. But statements **X** and **Y** do not have any logical implication.
- (e) Both statements **X** and **Y** are true. Statement **X** is a cause of statement **Y** but not in reverse.
- (f) Both statements **X** and **Y** are true. Statement **Y** is a cause of statement **X** but not in reverse.

### Question 1

**X:** There was no electronic computer in 400 years ago.

**Y:** There was no accounting information system in 400 years ago.

### Question 2

**X:** In the World War II, Alan Turing and his team designed an electronic computer and applied it to break the secret code hidden in the messages communicated within the German armies.

**Y:** UK made the world first commercial computer in the history.

### Question 3

**X:** Vacuum tube was invented earlier than the first generation electronic computers.

**Y:** Vacuum tube was a key component in the first generation electronic computers.

### Question 4

**X:** A cell phone can connect to the Internet via WiFi only.

**Y:** A notebook computer can connect to the Internet via WiFi only.

### Question 5

**X:** The first public demonstration of a mouse-control computer was in 1960s.

**Y:** In 1984, Apple released the Mackintosh which had embedded with a computer graphical interface for controlling the operating system.

### Question 6

**X:** Both Android and iOS are operating systems for cell phones.

**Y:** An APP which is able to be installed and executed in an iPhone must be able to be installed and executed in an Android phone.

### Question 7

**X:** Both Windows and MacOS are operating systems for personal computers.

**Y:** A software which is able to be installed and executed in a Windows-based computer must be able to be installed and executed in a MasOS-based computer.

### Question 8

**X:** Google Play (respectively Apple Store) is a platform for the APP developers to sell their Android (respectively iOS) Apps.

**Y:** The customers of Google Play (respectively Apple Store) are the buyers who buy the Apps.

### Question 9

**X:** If a user has subscribed both the voice service and data service from a telecommunication firm for his/her Android phone or iPhone, the user is able to access a homepage by using his/her Android phone or iPhone.

**Y:** The backbone infrastructure of a telecommunication firm has physically connected to the Internet.

### Question 10

**X:**  $a^2 + b^2 \geq 2ab$  for all  $a$  and  $b$  which are nonnegative numbers.

**Y:**  $a + b \geq 2\sqrt{ab}$  for all  $a$  and  $b$  which are nonnegative numbers.

## PART II

### Question

If your cell phone is unable to connect to the Internet, which of the following functions will be disabled?

- (i) Voice assistant (like Siri).
- (ii) iMessage.
- (iii) Messages.

**Answer:**

- (a) (i) and (ii) only.
- (b) (ii) and (iii) only.
- (c) (i) and (iii) only.
- (d) (i), (ii) and (iii).

### Question

Once you have been making a voice call to your friend via his/her telephone number, what will you see on the top left hand corner of your phone?

**Answer:**

- (a) It shows 2G.
- (b) It shows 3G.
- (c) It shows 4G.
- (d) It shows 5G.

### Question

Once have been making a LINE call to your friend, what will you see on the top left hand corner of your phone?

**Answer:**

- (a) It shows 2G.
- (b) It shows 3G.
- (c) It shows 4G.
- (d) It shows 5G.

### Question

Which of the following statement(s) regarding MS WORD is(are) true?

- (i) MS WORD is a word processing software.
- (ii) MS WORD is able to check and correct any grammatical mistake.
- (iii) MS WORD is able to check and correct any spelling mistake.

**Answer:**

- (a) (i) only.
- (b) (ii) only.
- (c) (iii) only.
- (d) (i) and (ii) only.
- (e) (ii) and (iii) only.
- (f) (i) and (iii) only.
- (g) (i), (ii) and (iii).

### Question

Which of the following software can be found in a Windows-based computer for editing a text document?

- (i) MS WORD.
- (ii) Wordpad.
- (iii) Notepad.

**Answer:**

- (a) (i) only.
- (b) (ii) only.
- (c) (iii) only.
- (d) (i) and (ii) only.
- (e) (ii) and (iii) only.
- (f) (i) and (iii) only.
- (g) (i), (ii) and (iii).

### Question

Which of the following software will be non-functional if a computer has not been connected to the Internet?

- (i) MS WORD.
- (ii) Chrome.
- (iii) LINE of PC.

#### Answer:

- (a) (i) only.
- (b) (ii) only.
- (c) (iii) only.
- (d) (i) and (ii) only.
- (e) (ii) and (iii) only.
- (f) (i) and (iii) only.
- (g) (i), (ii) and (iii).

### Question

Suppose your cell phone (with enough battery power) has been set to the following conditions but your cell phone is not able to access [www.nchu.edu.tw](http://www.nchu.edu.tw). However, you can still make a phone call. Which of the following is likely the cause of this connection failure?

WiFi	ON
Bluetooth	OFF
Cellular	ON
Personal Hotspot	OFF
Carrier	ON

#### Answer:

- (a) There is no available WiFi around.
- (b) Personal Hotspot is OFF.
- (c) Bluetooth is OFF.
- (d) Web server [www.nchu.edu.tw](http://www.nchu.edu.tw) is down.

### Question

Suppose your cell phone (with enough battery power) has been set to the following conditions.

WiFi	OFF
Bluetooth	OFF
Cellular	OFF
Personal Hotspot	OFF
Carrier	ON

What can you do with your cell phone?

#### Answer:

- (i) Take photo.

- (ii) Make a phone call.
- (iii) Access Internet.

#### Answer:

- (a) (i) and (ii) only.
- (b) (ii) and (iii) only.
- (c) (i) and (iii) only.
- (d) (i), (ii) and (iii).

### Question

Which of the following statements are true?

- (i) To send a message to your friend via Facebook, you need to login a Facebook account.
- (ii) To watch a video on Youtube, you need to login a Google account.
- (iii) To upload a file onto a cloud platform, you need to login a user account.

#### Answer:

- (a) (i) only.
- (b) (ii) only.
- (c) (iii) only.
- (d) (i) and (ii) only.
- (e) (ii) and (iii) only.
- (f) (i) and (iii) only.
- (g) (i), (ii) and (iii).

### Question

Which of the following statements are true?

- (i) A person can only learn knowledge from his/her teacher.
- (ii) A person can only answer a question if the question has a model answer.
- (iii) Without a teacher, a person is unable to learn anything.

#### Answer:

- (a) (i) only.
- (b) (ii) only.
- (c) (iii) only.
- (d) (i) and (ii) only.
- (e) (ii) and (iii) only.
- (f) (i) and (iii) only.
- (g) (i), (ii) and (iii).
- (h) None of them.