UTM UNIVERSITI TEKNOLOGI MALAYSIA
SCHOOL OF COMPUTING
Faculty of Engineering

Semester I 2020/2021

Subject : Technology and Information Systems (SECP1513)

Section : 01/02/03/04/05/06/07/08/09/10/11

Task : Step by step Basic PC Assembly

Due : 1/12/2020 (Report);

Submission Instruction

- submit softcopy (.docx) via e-learning & a copy in your e-portfolio
- One ONE submission for each group
- Name your file as RptPCAsmbly_GroupNumber.doc (eg for Group 1: *RptPCAsmbly_01.doc*)

Objectives:

Upon completion of this assignment, students should be able to:

1. Identify and distinguish basic components of CPU
2. Understand functions of the CPU basic components
3. Understand the process to assemble a PC
4. Demonstrate the assembly of a PC

This assignment will be 4% of the course assessment

Instruction:

In this assignment, students are required to write a group report on Basic PC Assembly. The report consists of 3 parts as follows:

PART A – Tools needed

PART B – Sketch of a mother board layout

PART C – Step by Step PC Assembly

Details of each part are described in page 4.

For part C, you MAY REFER to the following videos:

1. https://www.youtube.com/watch?v=ctK58A71DTs (Asas pemasangan Sistem Komputer)
2. https://www.youtube.com/watch?v=m_-G9Cacx2U (How to Make or Assemble Desktop CPU Step by Step)

For part B and C, your report must include keywords, listed in Table 1.0 below.

Table 1.0 – Keywords for Part B and C

Graphic card	*USB cable*	*IDE cable*
CPU / Processor	*Slots (IDE, PC*	*Power supply*
heat sink	*RAM*	*hard disk (jumper setting either master/slave)*
CD ROM	*SATA cable*	

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Section : _____

Assignment : Step by step PC Assembly

GROUP NAME / NUMBER : _____

1	Photo	Name : Matric Number : Phone Number E-mail :
2	Photo	Name : Matric Number : Phone Number E-mail :
3	Photo	Name : Matric Number : Phone Number E-mail :
4	Photo	Name : Matric Number : Phone Number E-mail :
5	Photo	Name : Matric Number : Phone Number E-mail :

FORMAT OF REPORT

PART A – List at least FOUR tools needed to assemble a PC. For each tool, Provide picture(s), explanations of its functions and its importance.

1.0 Screwdrivers

The screwdrivers _____<< functions >>_____

_____

_____<< and importance >> _____

2.0 Tool no 2
3.0 Tool no 3
4.0 Tool no 4
5.0 Tool no n

PART B – Sketch of a mother board layout

1.0 Sketch manually (using handwriting) a simple diagram of a motherboard layout that consists ALL keywords included in Table 1.0. Label each of the keyword. Diagram 1.0 and 2.0 below are examples of the sketches. Do not copy any of these diagram. Produce your own sketch diagram. Only one sketch diagram of a motherboard layout is required for this assignment.

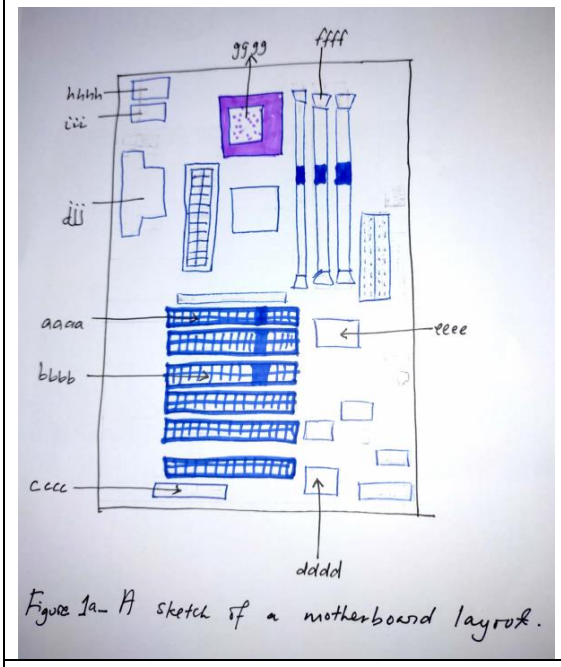	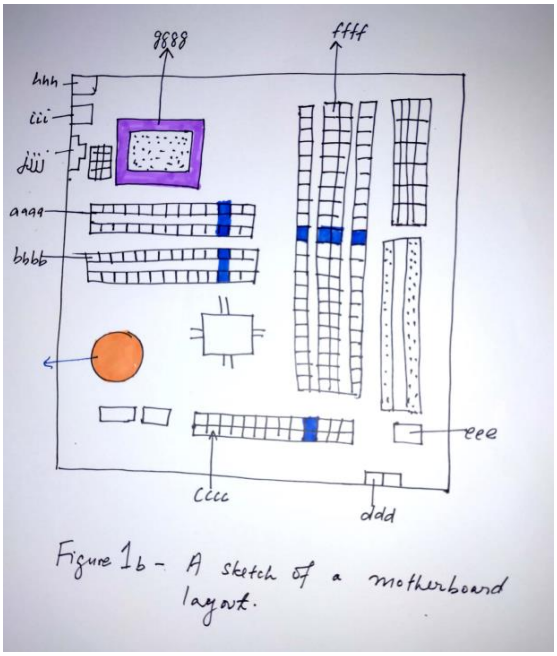
Diagram 1.0	Diagram 2.0

2.0 For each keyword in Table 1.0. Provide picture(s), explanations of its functions and example of models.

PART C - "Step by Step PC Assembly"

Based on the given video and keywords in Table 1.0, prepare a report on "Step by Step PC Assembly" that provide guided instructions on how to Assemble a PC. Assumed that in front of you is an opened computer case (without the side panels). Number of steps should not exceed the number of keywords.

STEP 1 – Write the Activity Name

- Provide close up photo, guided detail instructions, precautions, tips (e.g how to install RAM).

STEP 2 - _____

STEP 3 - _____

STEP n - _____

Last STEP - CLOSING THE CASE AND CONNECTING THE PERIPHERALS.

(Complete these step by inserting relevant photo(s) which illustrate the given descriptions)

Insert relevant photo(s) which illustrate the descriptions	Place the side cover back on and secure the side panels with case screws.
Insert relevant photo(s) which illustrate the descriptions	Connect peripheral devices which include keyboard, mouse, wireless network dongle, printer and webcams with your CPU by plugging into USB port.
Insert relevant photo(s) which illustrate the descriptions	Then, connect speakers and microphone into 2.5 mm sockets.
Insert relevant photo(s) which illustrate the descriptions	Finally connect the CPU with monitor by plugging into display ports