ព្រះរាជាណាចក្រកម្ពុជា

ជាតិ សាសនា ព្រះមហាក្សត្រ

វិទ្យាស្ថានបច្ចេកវិទ្យាកម្ពុជា

ដេប៉ាតឺម៉ង់ថ្នាក់ឆ្នាំសិក្សាមូលដ្ឋាន

TP0: Component of Computer

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Team 1 – CPU (Processor)

1. What is a CPU?
2. Why is CPU called the “brain” of the computer?
3. What does “Generation” mean? (Example: i5 8th Gen vs 12th Gen)
4. What is GHz?
5. Difference between i3, i5, i7?
6. Which CPU is good for:
   a. Student?
   b. Gaming?
   c. Office work?
7. What is the price of an i5 laptop in Cambodia?









1. What is a CPU?

CPU stands for **Central Processing Unit**.
It is the main chip in a computer that **executes instructions** and performs calculations to run programs and processes.

Think of it as the part of the computer that does all the thinking and processing.

2. Why is the CPU called the "brain" of the computer?

Because:

- It **controls and coordinates** everything that happens in the computer.
- It **processes instructions** from software and hardware.
- Without the CPU, the computer can't run programs or perform tasks.
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3. What does "Generation" mean? (Example: i5 8th Gen vs 12th Gen)

"**Generation**" refers to the **version or era** of the CPU design.

As generation increases:
✓ Performance gets better
✓ Power efficiency improves
✓ Architecture becomes more advanced

So:

- **8th Gen Intel** is older and slower than
- **12th Gen Intel** which is newer and faster.

4. What is GHz?

GHz stands for **Gigahertz** — a unit of frequency.

In CPUs, GHz measures the **clock speed** → how many cycles per second the CPU can perform.

1 GHz = 1 billion cycles per second

Higher GHz usually means faster processing (especially for single-thread tasks).

5. Difference between i3, i5, i7?

These are **Intel CPU performance tiers**:

Tier	Performance	Best For
i3	Entry-level	Basic tasks (web, docs)
i5	Mid-range	Everyday use, gaming, multitasking
i7	High-end	Heavy multitasking, content creation, more cores/threads

Summary:
➞ i3 = beginner/basic
➞ i5 = balanced
➞ i7 = power user

(Note: AMD has similar tiers, e.g., Ryzen 3 / 5 / 7.)

6. Which CPU is good for:

a. Student?

✓ Intel i3 or i5
✓ AMD Ryzen 3 or Ryzen 5
Good for research, browsing, studying, Zoom, Office.

b. Gaming?

✓ Intel i5 or i7
✓ AMD Ryzen 5 or Ryzen 7
More cores/threads help modern games run smoother.

c. Office work?

✓ Intel i3 or i5
✓ AMD Ryzen 3 or Ryzen 5
Office apps aren’t demanding, so mid-range CPUs are perfect.

7. What is the price of an i5 laptop in Cambodia?

(Prices fluctuate, but here's a general range)

Intel Core i5 laptop price in Cambodia ≈ $500 – $900
(Approximately **2,000,000 – 3,600,000 KHR**)
Depends on brand, model, RAM, storage, and retailer.