

Textbook Exercise of L-1 Computer – History & Generations

A. Tick the correct answer.

- 1) The first calculating device was Abacus.
- 2) Which calculating device was developed by Gattfried Wilhelm von Leibniz?

Step Reckoner

- 3) Charles Babbage is known as the ‘Father of Computer’.
- 4) The second generation computers used Transistors.
- 5) The Fifth generation computers are based on Artificial Intelligence.

B. State true or false.

- 1) Early man used to count with the help of stones, fingers, etc. **True**
- 2) Herman Hollerith invented ‘Tabulating Machine’ in 1990. **False**
- 3) Mark I was the first electro-mechanical computer. **True**
- 4) The third generation of computers used vacuum tubes. **False**
- 5) Integrated circuits are used in the fourth generation of computers. **False**

C. Fill in the blanks.

- 1) Abacus was invented by the Chinese.
- 2) Pascaline was invented by Blaise Pascal in 1642.
- 3) Charles Babbage invented ‘Difference Engine’ and ‘Analytical Engine’.
- 4) The fifth generation computers are still in research and development phase.

D. Read the clues and name the machines:

1.	The numbers were marked on a set of rectangular rods.
A.	NAPIER’S BONES
2.	Vacuum tubes were replaced by it.
A.	TRANSISTORS

E. Differentiate between the following:

	First Generation Computer	Second Generation Computer
	➤ Duration: 1946-1958 ➤ They used Vacuum Tube.	➤ Duration: 1959-1964 ➤ They used Transistors.
	Third Generation Computer	Fourth Generation Computer
	➤ Duration: 1965-1970 ➤ They used IC.	➤ Duration: 1971 Onwards ➤ They used Microprocessor/Chip.

F. Answer the following questions:

Q:1	Name the five key features that Charles Babbage used in Analytical Engine.
A:1	• Input Device • Output Device • Storage Device • Control Unit • Processor
Q:2	What is Microprocessor? In which generation used it?
A:2	• Microprocessor is a single chip that does all the processing. • It is used in 4th generation.
Q:3	What is the main goal of Fifth generation computers?
A:3	• The goal of fifth generations is to develop the computers that can respond to natural language and are capable of learning and taking their own decisions.

G. Application – based Question

Your father wants to buy a device for your younger brother to help him learn counting. Which calculating device would you suggest?

Abacus