

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:

1.		
	<u>1st Gen. Com.</u>	<u>2nd Gen. Com.</u>
➤	Duration: 1946-1958	➤ Duration: 1959-1964
➤	They used Vacuum Tube.	➤ They used Transistors.

2.

<u>3rd Gen. Com.</u>	<u>4th Gen. Com.</u>
➤ Duration: 1965-1970	➤ Duration: 1971 Onwards
➤ They used IC.	➤ 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	<ul style="list-style-type: none"> • Input Device • Output Device • Storage Device • Control Unit • Processor
Q:2	What is Microprocessor? In which generation used it?
A:2	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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



ACTIVITY WRITE:

Complete the following table.

Generation	Period	Technology
1 st	(1946-1958)	Vacuum Tube
2 nd	(1959-1964)	Transistor
3 rd	(1965-1970)	Integrated Circuit
4 th	(1971 onwards)	Microprocessor
5 th	(Present-Beyond)	Artificial Intelligence