

EXERCISE

1. Tick (✓) the correct option.

- | | | |
|--|--|-------------------------------------|
| 1. The device invented in China used for performing simple calculations. | | |
| (a) Abacus | <input checked="" type="checkbox"/> (b) Napier's Bones | <input type="checkbox"/> |
| (c) Pascaline | <input type="checkbox"/> (d) Difference Engine | <input type="checkbox"/> |
| 2. It was the first mechanical calculator invented in 1642. | | |
| (a) Tabulating Machine | <input type="checkbox"/> (b) Napier's Bones | <input type="checkbox"/> |
| (c) Pascaline | <input checked="" type="checkbox"/> (d) Mark I | <input type="checkbox"/> |
| 3. An arrangement of _____ was used in first generation computers. | | |
| (a) vacuum tubes | <input checked="" type="checkbox"/> (b) microprocessor | <input type="checkbox"/> |
| (c) AI | <input type="checkbox"/> (d) transistors | <input type="checkbox"/> |
| 4. It is a fourth generation computer. | | |
| (a) IBM 360 | <input type="checkbox"/> (b) ENIAC | <input type="checkbox"/> |
| (c) IBM PC | <input checked="" type="checkbox"/> (d) IBM 1401 | <input type="checkbox"/> |
| 5. Which of the following are the characteristics of computers? | | |
| (a) Diligence | <input type="checkbox"/> (b) Versatility | <input type="checkbox"/> |
| (c) Accuracy | <input type="checkbox"/> (d) All of these | <input checked="" type="checkbox"/> |

2. Fill in the blanks with appropriate words.

1. ABACUS was made up of a wooden rack with rods, each having beads.
2. Analytical Engine was the first mechanical computer that performed complex mathematical calculations.
3. UNIVAC I is an example of first generation computer.
4. Third generation computers used Integrated Circuit.
5. Fifth generation computers are based on Artificial Intelligence.
6. ENIAC was the first general purpose electronic computer.

ENIAC, Artificial Intelligence, Integrated Circuits, UNIVAC I, Analytical Engine, Abacus

3. Tick (✓) for the correct statements and cross (X) for the wrong ones.

- | | |
|--|-------------------------------------|
| 1. Napier's Bones was a calculating device invented by Sir John Napier. | <input checked="" type="checkbox"/> |
| 2. Herman Hollerith invented the Difference Engine in 1822. | <input checked="" type="checkbox"/> |
| 3. UNIVAC I was the first computer to handle both numeric and text data. | <input checked="" type="checkbox"/> |
| 4. Punched cards were used in the first generation computers only. | <input checked="" type="checkbox"/> |

D. Match the computer generations with their respective technologies.

- | | | | |
|----------------------|---|---|-----------------------------|
| 1. First Generation | • | • | (a) Microprocessor |
| 2. Second Generation | • | • | (b) Integrated Circuits |
| 3. Third Generation | • | • | (c) Artificial Intelligence |
| 4. Fourth Generation | • | • | (d) Vacuum Tubes |
| 5. Fifth Generation | • | • | (e) Transistors |
-
- ```
graph LR; G1[1. First Generation] --- T1((•)); T1 --- TechD[(d) Vacuum Tubes]; G2[2. Second Generation] --- T2((•)); T2 --- TechE[(e) Transistors]; G3[3. Third Generation] --- T3((•)); T3 --- TechB[(b) Integrated Circuits]; G4[4. Fourth Generation] --- T4((•)); T4 --- TechA[(a) Microprocessor]; G5[5. Fifth Generation] --- T5((•)); T5 --- TechC[(c) Artificial Intelligence];
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## Chapter - 1 Evolution of Computer

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1960 to 1960

### First Generation of Computer (1945 to 1956)

→ Vacuum tubes

Features: -

- 1) Thousands of vacuum tubes.
- 2) Consumed lots of Power.
- 3) Generate large amount of heat.
- 4) Large in size.
- 5) Very expensive.
- 6) Used machine language.
- 7) Punched Cards & Paper tapes.

### Second Generation of Computer (1956 to 1963)

→ Transistors

Features: -



- 1) Used transistor.
- 2) Small and faster than 1st generation.
- 3) Cheaper and more reliable.
- 4) More energy efficient.
- 5) Still generated lots of heat.

Third generation of Computer (1964 to 1971)

### → Integrated Circuits (I.C)

Features :-

- 1) Used integrated Circuits (I.C).
- 2) Smaller and Faster.
- 3) Cheaper than 2nd generation.
- 4) Accessed using keyboard, Monitor.

Q.1) What are characteristics of Computer?

Ans ⇒ Characteristics of computer :-

① Speed ⇒ Computer can complete any kind of calculation in a few seconds because computer is a super fast machine.

② Accuracy ⇒ Computer is very accurate about its result. Each calculation performed by computer is 100% correct.

③ Versatility ⇒ Computer is versatile device because it can perform a variety of tasks.

④ Storage ⇒ Computers have high storage capacity due to which they can store large amounts of data.

⑤ Security ⇒ The biggest feature of computer is that it provides us high security.

Security :

⑥ Diligence  $\Rightarrow$  Computer is a machine, that can do any work 24x7, without being tired. non-stop without fault.



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Answer the following question:-

Q1) What is an abacus? Who invented it?

Ans ⇒ Abacus was the first calculating invented in china used to performed Addition; Subtraction multiplication and division.

Q2) Write a note on difference engine and analytical engine.

Ans ⇒ Difference engine was an automating calculating machine used to prepare table and calculate complex Problem.

Analytical engine was first mechanical computer that perform complex mathematical calculation.

Q3) Write any three features of first generation computers.

Ans ⇒ features of first generation computer:-

(a) Expensive (c) Slow Speed

(b) Consumed more power

Q4) Differentiate between third generation and fourth generation computers.

| <u>Ans</u> ⇒ | Third generation | fourth generation |
|--------------|------------------|-------------------|
|              | Small size       | Compact size      |
|              | faster           | more faster       |
|              | Costly           | less costly       |
|              | Less storage     | Greater Storage   |

Q5) What do you mean by artificial intelligence?

Ans Artificial Intelligence means it think what comes in our mind by computer.

Q6) Explain any three characteristics of computers.

Ans ⇒ Characteristics of computer are :-

(a) Speed in Processing



(b) Accuracy in result.

(c) Storage capacity.

(d) ~~Do not get fixed.~~

(e) Multiple processing.

~~Handwritten scribbles in red ink.~~