

Delhi Public School, Gandhinagar

Class- V

Computer Sample Notebook

L.1-History of Computers- From Abacus to Robots.

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Let us Enter

Rearrange the words.

R C O T M P U E

C O M P U T E R

U C U M A A B S E U T

V A C C U M T U B E S

A B A C U S

A B A C U S

Answer the Wizard

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A. Put a tick (✓) the correct option.

1. Who invented the Pascaline ?

- (a) Blaise Pascal (✓)
- (b) John Napier
- (c) Gottfried Leibniz
- (d) Lady Ada Lovelace

2. Who is the first woman programmer?

- (a) Blaise Pascal
- (b) John Napier
- (c) Gottfried Leibniz
- (d) Lady Ada Lovelace (✓)

3. Which technology was used in second generation computers?

- (a) Vacuum Tubes
 - (b) Integrated Circuits
 - (c) Transistors (✓)
 - (d) All of the above
4. UNIVAC belongs to which generation of computers?
- (a) First (✓)
 - (b) Second
 - (c) Third
 - (d) Fourth
5. Which was the first calculating device ?
- (a) Calculator
 - (b) Abacus (✓)
 - (c) Computer
 - (d) None of these

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B. Write 'T' for true and 'F' for false statements.

- 1. Abacus is an Indian Invention. (F)
- 2. The frame of the abacus has a series of vertical rods. (T)
- 3. Gottfried Wilhelm Von Leibniz invented the Analytical Engine. (F)
- 4. There are five generations of computers. (T)
- 5. The fifth generations of computers is based on Artificial Intelligence. (T)

C. Match the following.

1.	Lady Ada Lovelace	a.	Third Generation
2.	First Generations of Computers	b.	Fourth Generation
3.	Transistors	c.	First woman computer programmer
4.	IBM-360 Series	d.	Second Generation
5.	Microprocessor Chips	e.	From 1940-1956

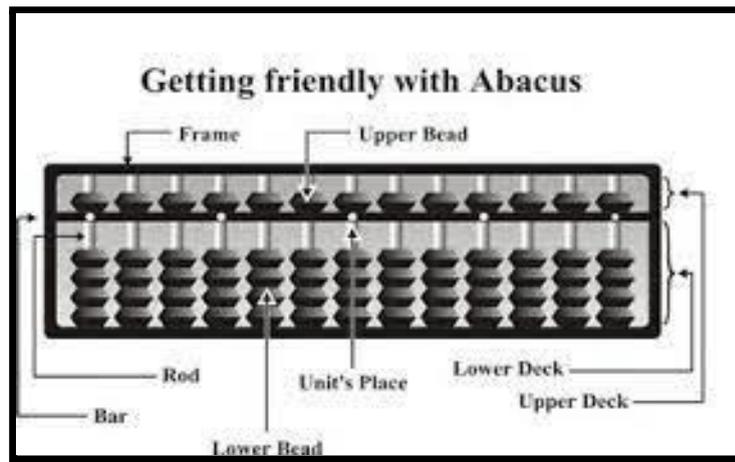
Answer:- 1-c, 2- e, 3-d, 4-a, 5- b

D. Answer the following questions.

1. What is Abacus and explain its structure ?

Ans: Abacus is first calculating device invented by China 5000 years ago in 3000 BC.

Structure:- The frame of Abacus has a series of vertical rods on which a number of wooden beads are allowed to slide freely. It has upper and lower deck. Each bead in upper deck has a value of 5 and in lower deck each bead has value of 1.



2. Who is known as 'Father of Computers ' and why ?

Ans: Charles Babbage is known as the 'Father of Computers ' because of his research into machines that could calculate. He invented Difference Engine and Analytical Engine.

3. Write a short note on generations of computers.

Ans: By generation of computers we simply mean the different stages of development of a basic computer. Computers can be classified into five generations and it is mainly classified on the device it used.

1st Generation- Vacuum Tubes

2nd Generation- Transistors

3rd Generation- Integrated Circuits

4th Generation -Microprocessors

5th Generation- Artificial Intelligence

4. Write a short note on 1st generation of Computers?

- Ans:** (a) Time Period(1940-1956).
(b) Vacuum Tubes were used.
(c) They were very large in size and were room sized computers.
(d) Examples are ENIAC, UNIVAC, EDVAC and EDSAC.

5. Write a short note on 5th generation of Computers?

- Ans:** (a) Time period of 5th generation of computers is from 1989-Present.
(b) Artificial Intelligence were used.
(c) Computer understands spoken words and imitate human reasoning.
(d) Examples are Robots, Nano Computers and Quantum computers.

D. Application based questions.

- 1. Abhishek has decided to help his mother in calculating the daily expenses of their family. What machine should he use to make his and his mother's work simple, easy and without any mistake?**

Ans: Calculator

- 2. Rani's father uses a AMC Notebook at office. Which generation of computer does he use**

Ans: Fourth Generation.

CBE (Competency Based Questions)

1.Apart from China,which other countries contributed in invention of Abacus?

2.Who am I ?

(i)I was invented in 16th century by a Scottish Mathematician .

- (a)Stepped Reckoner
(b)Tabulating Machine
(c)Pascaline
(d)Napiers Bone

(ii)Herman Hollerith an American mathematician invented this machine.

- (a)Pascaline
(b)Napiers Bone
(c)Tabulating Machine
(d)Analytical Engine

(iii) I was first lady programmer and founder of Scientific computing.

- (a) Lady Ada Lovelace**
- (b) Gottfried Wilhelm Von Leibniz**
- (c) Charles Babbage**
- (d) None of these.**

3. Prepare a table on Generations of Computer also mention the time period, Technology used along with its examples.

4. Rahul is 12 year old in 2021 ,his father 50 years in 2021 and grandfather is 70 year in 2021.

Now identify to which generation they belong.

5. Robots, Nano Computers and Quantum computers belongs to which generation of computers.

(CBE Based questions answers will be discussed in Classroom)