



CLASS NOTES-ANSWERS

Assess Yourself

1) Tick (✓) the correct option.

- a) Which of the following device was invented by China?
- i) Difference engine
 - ii) Abacus ✓
 - iii) Analytical engine
- b) Who invented the Difference Engine?
- i) Charles Babbage ✓
 - ii) Japanese
 - iii) John Napier
- c) Which of the following is used in second generation computers?
- i) Vacuum tubes
 - ii) Integrated circuits
 - iii) Transistors ✓
- d) Which of the following is an example of the fourth-generation computers?
- i) Apple Macintosh ✓
 - ii) IBM 360
 - iii) Honeywell 200

2) Write T for true and F for false.

- a) Napier's Bones was the first ever invented computer. **F**
- b) Charles Babbage invented the Difference Engine. **T**
- c) Analytical Engine was invented in 1898. **F**
- d) Abacus is the first mathematical calculator in the world. **F**



3) Answer in one or two words.

- a) Name the technology used in the 4th generation of computers.

Answer: Microprocessor

- b) Name one example of a third-generation computer.

Answer: IBM 360

- c) Which was the first mathematical calculator in the world?

Answer: Pascaline Calculator

- d) Name the technology used in the first generation of computers.

Answer: Vacuum tubes

4) Think and answer.

- a) What is Napier's Bones?

Answer: John Napier, a Scottish mathematician, created a manually operated calculating device in 1617. Napier's Bones device used a set of rods with numbers written on them. These rods were carved out from bones, metals, woods or ivory.

- b) What is Analytical Engine?

Answer: In 1837, Charles Babbage devised a calculator called Analytical Engine. It is the first-ever working model of a mechanical computer and a fully program-controlled machine.

- c) Which technology was used in the third generation of computers?

Answer: Integrated Circuits or ICs were used in the third generation of computers.

- d) List the features of 4th generation computers. Give one example?



Answer: Features of fourth generation computers are:

- Reduction in the size of computer.
- More reliable than the earlier generation of computers with a great storage device.
- Extremely powerful and can process millions of instructions per second.
- Example: Apple Macintosh

5) Competency based/Application based questions.

- a) Dev's mother told him about the computers that were made-up of integrated circuits. Which generation of computers is she talking about?

Answer: Dev's mother is talking about the third-generation computers.

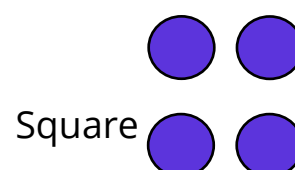
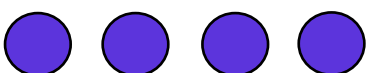
- b) Sahil's brother asked him about the computers that are used nowadays, which generation of computers do we currently use?

Answer: We currently use the fifth-generation of computers.

{Coding zone}

Draw the given shapes in the space provided using circles. Use as many circles as you need.

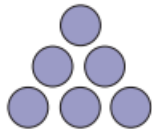
One has been done as an example for you.





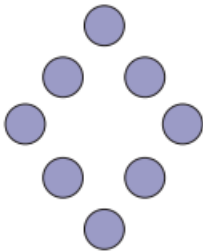
a. Triangle

Answer:



b. Diamond

Answer:



c. Rectangle

Answer:

