

# CH – 1

## THE EVOLUTION OF COMPUTERS

### **Q1. What is a Computer?**

Ans : A computer is a complex piece of machinery made up of many parts, each of which can be considered a separate invention.

### **Q2. Who is the Father of Computer?**

Ans : English Mathematics Professor Charles Babbage is known as the father of the computer.

### **Q3. Name the computer designed by Charles Babbage.**

Ans : Analytical Engine

### **Q4. In how many generations, Computer is divided?**

Ans : Five Generations.

### **Q5. Write the name of generation of computer with year.**

Ans : First Generation – 1940 – 1956

Second Generation – 1956 – 1963

Third Generation – 1964 – 1971

Fourth Generation – 1972 – 2010

Fifth Generation – Present – Beyond

### **Q6. What are the Hardware characteristics of First Generation Computer ?**

Ans : Vacuum Tubes, Magnetic drums for memory, Input on Punched cards and paper tape, etc.

### **Q7. What are the Software characteristics of First Generation Computer ?**

Ans : Machine Language, Solve only one problem at a time, etc.

### **Q8. Name the computer which developed in First Generation.**

Ans : UNIVAC and ENIAC

### **Q9. What are the Hardware characteristics of Second Generation Computer?**

Ans : Transistors, Magnetic Core memory, Magnetic Tapes, etc.

**Q10. What are the Software characteristics of Second Generation Computer?**

Ans : Batch processing computer, Assembly Language, High Level Language etc.

**Q11. When was the First IC (Integrated Circuit) was developed ?**

Ans : The First Integrated Circuit was developed in the 1950s by Jack Kilby and Robert Noyce.

**Q12. What are the Hardware characteristics of Third Generation Computer?**

Ans : IC's with SSI and MSI technologies, Larger Magnetic Cores Memory etc.

**Q13. What are the Software characteristics of Third Generation Computer?**

Ans : Time Sharing Operating System, Standardization of high – level programming Languages.

**Q14. What are the Hardware characteristics of Fourth Generation Computer?**

Ans : Microprocessor, Large Capacity Hard Disks as in-built Secondary Storage devices, Personal Computer.

**Q15. What are the Software characteristics of Fourth Generation Computer?**

Ans : GUI Based Operating System, Multiprocessing OS, JAVA, WWW, Multimedia etc.

**Q16. What are the Hardware characteristics of Fifth Generation Computer?**

Ans : Superconductor, Powerful servers , Supercomputers, Interspace etc.

**Q17. What are the Software characteristics of Fifth Generation Computer?**

Ans : Natural Language Input, Voice Recognition etc.

**Q18. What do you mean by generation of computers?**

Ans :- Generation of computers means new/latest developments in the technology of the computers. Its in relation to the hardware of computers. Latest advanced developments in the technology as compared to the technology of previous generation.