

Brain International School

Vikas Puri, New Delhi

ASSIGNMENT NO. 1

SUBJECT: COMPUTER SCIENCE

CLASS-XI

APRIL,2025

CH 1: Computer system organization

- 1. Define a computer system. What are its main components?
- 2. Differentiate between application software and system software.
- 3. What is the role of the CPU in a computer system?
- 4. Explain the functions of an operating system.
- 5. What is the difference between RAM and ROM?
- 6. Write two examples each of input and output devices.
- 7. What is the function of the control unit in the CPU?
- 8. Explain the concept of booting.
- 9. Define volatile and non-volatile memory with examples.
- 10. What is the difference between compiler and interpreter?

CH 2 : Data Representation

- 1. Convert the decimal number 156 to binary.
- 2. Convert the binary number 110011 to decimal.
- 3. Convert the decimal number 29 to hexadecimal.
- 4. Convert the hexadecimal number 2A to decimal.
- 5. What is a nibble? How many bits does it contain?
- 6. Define ASCII and Unicode. How are they different?
- 7. Convert the binary number 101011 to octal.
- 8. Convert the octal number 57 to binary.
- 9. Convert the hexadecimal number 3F to binary.
- 10. Convert the binary number 111010 to hexadecimal.