Computer Science

Worksheet

Class XI

Data Representation

Three marks questions:

1. Mention the different types of positional number system.
2. What is base or radix of the number system? Give the radix of all positional

number system.
3. What is two's compliment? Give an example.
4. What is one's compliment? Give an example.
5. What are computer codes? Give example.
6. Convert 61(10) to binary.
7. Convert 65(10) to octal.
8. Convert 345(10) to hexadecimal.
9. Convert 101101(2) to binary.
10. Convert FACE(16) to binary,octal,decimal
11. Add 110011(2) to 111000(2).
12. Give the two's compliment of 110110(2).

Five marks questions.

13. Subtract 36(10) from 19(10) using 1's Compliment Method.
14. Subtract 56(10) from 22(10) using 2's Compliment Method.
15. Write short notes on binary Arithmetic.
16. Write short notes on ASCII and BCD codes.
17. Convert BEAD (16) to binary, octal and decimal.
18. Convert 2567 (10) to binary, octal and hexadecimal.