Section 4

Q.3 Answer ⇒ Binary Code ⇒

A binary code is a way of representing text or computer instructions by the use of the binary number system 0 and 1.

- This is accomplished by assigning a bit string to each particular symbol or instruction.
- For example, a binary string of eight binary digits (bits) can represent any of 256 symbol, letters or instruction.
- In computing, binary codes are used for many methods of encoding data such as character strings into bit strings.
- These method may be fixed-width or variable width. In a fixed-width binary code,

each letter, digit, or other interpreted as a binary number, is usually displayed in code tables in octal, decimal or hexadecimal notation.

- There are many character sets and character encoding for them.

- A bit string, interpreted as a binary number, can be translated into a decimal number.

Comparison of binary code with Huffman code ⇒

Binary code ⇒ In binary code, we can generate codewords for group or sequence of symbols.

Huffman code => In Huffman code, we need separate codeword for each symbol in a sequence.