UNIT- 1

1. Write the difference between compiler and interpreter

2. Explain the phases of compiler for
$$position = initial + rate * 60$$

3. Explain the language processor system?

4. Describe the Analysis - Synthesis model of the compiler or (same as Q2)

5. Explain in detail the various phases of compilation for the input string

   1. $p = i + 2 * 60$
   2. $x = a * b + a * b$
   3. $a = (b + c) * (b + c) * 2$
   4. $a[index] = 4 + 2 + index$

6. why is it necessary to group phases of compiler

7. Explain lexical Analysis in detail with block diagram

8. What do you mean by lexical errors? How do we recover them.

9. Define the terms token, pattern, lexeme with an example

10. why 2 buffer technique is used in LA?

11. Give the formal definitions for operations on languages with notations.

12. List the algebraic laws for Regular expression.

13. Define the terms prefix, suffix, substring, proper prefix, proper suffix, proper substring subsequence with an example.

14. Write regular definitions for identifiers, unsigned numbers, keywords, relational operators and whitespace

15. Draw the transition diagram for relop, identifier, unsigned number, keywords & whitespaces.