### Chapter 1

1. What do you mean by fundamental design concepts, also write its advantages?  
2. What do you mean by modules, also explain different modularization criteria.  
3. What do you mean by programming language? Explain the characteristics of Programming Language.  
4. What is Test Plans? Explain different types of Test Plan.

### Chapter 2

1. What is virtual computer? What is its principle advantage?  
2. What is translator. Explain the structure & operations of translators.  
3. What is data types? Explain the properties of data type.  
4. What do you mean by Abstraction? Explain it with suitable example & also write its advantage over programming language.

### Chapter 3

1. What is imperative languages?  
2. What is functional programming language? Explain the different characteristics of FPL.  
3. Explain LISP programming in the following steps:  
   - Definition  
   - Characteristics  
   - Representation of data types  
   - Basic functions  
4. Explain Haskell programming in the following steps:  
   - Definition  
   - Characteristics  
   - Representation of data types  
   - Basic functions
Chapter 4

1. What do you mean by Neural Network? What is its use? 2
2. Explain Artificial Neural Network with suitable diagram. Also write its applications. 7
3. What do you mean by activation function? Explain different types of activation function. 7
4. What is Neural Network Architecture? Explain different types of Neural Network Architecture. 7

Chapter 5

1. Explain fuzzy logic with suitable examples. 2
2. Explain the Genetic Algorithm in the following steps:
   - Definition
   - Working principle
   - Procedures of GA
   - Flow chart
   - Genetic Representation 7
3. Write the difference between fuzzy and crisp sets. Also explain the fuzzy to crisp conversion. 7
4. Explain the different types of genetic operators with suitable examples. 7