(b) What is multilevel inheritance ? Demonstrate a multilevel inheritance with a program code. 6

(c) What is dynamic method dispatch in method overriding ? Explain with Example. 6

Or

2. (a) What is the role of a constructor in java? Explain parameterized constructor with an Example. 6

(b) Explain the use of the following with example

i) Super ii) final
iii) this iv) Iteration statements
v) Abstract class 10

UNIT - III

3. (a) Define package in java? what are the benefits of using package?Explain with suitable example. 8

(b) Write all similarities and differences between interfaces and classes with example. 8

Or

3. (a) What is interface? Give an example to defining and implementing a interface. 8

(b) Write short notes on the following string operation . 8
i) CharAt ( ) ii) indexOf ( )
iii) substring iv) append

UNIT - IV

4. (a) What is exception handing? What are the types of exception? write a code to handle arrayOutOfBound exception. 8

(b) Write java program to read primitive data from the file and write primitive data to the file.

8

Or