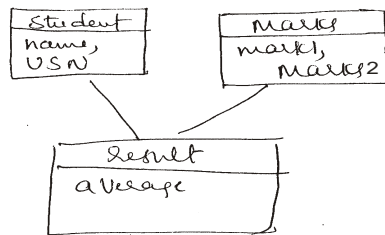




- 6 a. Explain the limitations of exception handling with example. Explain with example, how the exceptions are handled in C++? 8
- b. With programming example, explain how multiple catch statement are handled? 6
- c. Explain briefly the components of STL. 6

**UNIT - IV**

- 7 a. Explain different types of inheritance with an example. 10
- b. For the given class diagram, write a program to display the following information of a student Name, USN, mark 1, mark2, average and result as per following condition, if average  $\geq 50$  Pass else Fail 10



Write appropriate member functions in each class.

- 8 a. Differentiate between function overloading and function overriding with an example to each. 4
- b. Illustrate with programming example, the usage of virtual base class. 6
- c. Consider the class diagram given below. Print all the details of  $n$  employees in an organization. (Gross pay = Basic pay+DA+HRA, Net Pay = gross pay - (PF+LIC+ IT). 10

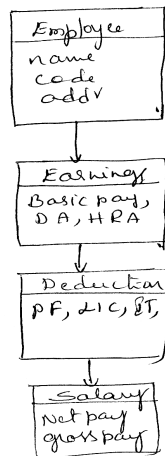


fig 8(c)

**UNIT - V**

- 9 a. How polymorphism is achieved at, i) compile time ii) run time? Explain. 6
  - b. List the rules of virtual functions. 6
  - c. Illustrate with an example, implementation of virtual function. 8
  - 10 a. Explain stream classes for console operation. 10
  - b. Explain the following formatted console I/O operation with an example to each, 10
- i) precision()    ii) setf()    iii) fill()    iv) width()    v) unsetf().