

**CHAPTER- 2 – DATA ABSTRACTION**

**I. Answer in brief (2 marks)**

1. What is abstract data type?
2. **Differentiate constructors and selectors.**
3. What is a Pair? Give an example.
4. What is a List? Give an example
5. What is a Tuple? Give an example.

**II. Answer in a brief (3 marks)**

1. **Differentiate Concrete data type and abstract datatype.**
2. Which strategy is used for program designing? Define that Strategy.
3. **Identify Which of the following are constructors and selectors?**

- |                 |                                      |                    |
|-----------------|--------------------------------------|--------------------|
| (a) N1=number() | (b) accetnum(n1)                     | (c) displaynum(n1) |
| (d) eval(a/b)   | (e) x,y= makeslope (m), makeslope(n) | (f) display()      |

4. What are the different ways to access the elements of a list. Give example.
5. Identify Which of the following are List, Tuple and class ?

- |                                       |                                 |   |
|---------------------------------------|---------------------------------|---|
| (a) arr [1, 2, 34]                    | (b) arr (1, 2, 34)              | (c) student [rno, name, mark]             |
| (d) day= ('sun', 'mon', 'tue', 'wed') | (e) x= [2, 5, 6.5, [5, 6], 8.2] | (f) employee [eno, ename, esal, eaddress] |

**III. Answer in Paragraph ( 5 marks)**

1. How will you facilitate data abstraction. Explain it with suitable example
2. **What is a List? Why List can be called as Pairs. Explain with suitable example**
3. **How will you access the multi-item. Explain with example**

*St. Joseph Study Centre  
Puducherry, Ph. No.: 9042247637*

**IV. Extra 2 marks and 3 marks**

1. What is know as abstraction ?
2. What are the different parts of a program?
3. What is data abstraction ?
4. Difference between list and tuples ?
5. Define class