ITM(SLS) Baroda University
School of Computer Science, Engineering and Technology
Semester VI

-: Question Bank :-

Course Name : Data Structures And Algorithms
Course Name : C2620C1
Years : None
Chapters : 1 , 4
Total Questions : 15

• Questions :-

1. Differentiate between linear and non linear data structures. **(Chapter : Introduction To Data Structure)**
2. Define Data Structure and differentiate between linear and nonlinear data structures. **(Chapter : Introduction To Data Structure)**
3. Explain average case timing analysis for Search Algorithm. **(Chapter : Introduction To Data Structure)**
4. Define primitive and non-primitive data types with example. **(Chapter : Introduction To Data Structure)**
5. Differentiate linear and non-linear data structures. **(Chapter : Introduction To Data Structure)**
6. Explain time and space complexity of an algorithm. **(Chapter : Introduction To Data Structure)**
7. Explain primitive, non-primitive, linear and non-linear data structures. **(Chapter : Introduction To Data Structure)**
8. What is hashing? Explain hash collision and any one collision resolution technique. **(Chapter : Hashing And File Structure)**
9. List the qualities of a good hash function. **(Chapter : Hashing And File Structure)**
10. Explain two hash functions. **(Chapter : Hashing And File Structure)**
11. Explain collision in the context of hashing? Discuss collision resolution techniques. **(Chapter : Hashing And File Structure)**
12. Explain indexing structure for index files. **(Chapter : Hashing And File Structure)**
13. Explain Sequential file organizations and list its advantages and disadvantages. **(Chapter : Hashing And File Structure)**
14. What is hashing? Explain Different Hashing techniques in brief. **(Chapter : Hashing And File Structure)**
15. Define time complexity? Explain worst case and best case complexity with examples. **(Chapter : Introduction To Data Structure)**