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Anna University Exams May/June 2014 — Regulation 2013
Rejinpaul.com Important Questions — 2nd Semester BE/BTECH
CS6202 Programming and Data Structures I

1. Briefly discuss in detail about the Decision making, branching and looping in C language with suitable examples. 1)18 1.5)6
2. Explain one dimensional array and two dimensional array ? Write a program to find minimum and maximum number in an array of element 1)31 1.5)32
3. Explain Pass by value and Pass by reference with example? 1)35 1.5)24
4. Explain in detail about recursive function with example? 1.5)27
5. Explain in detail about various Pre-processor directives with suitable examples. 1)43 1.5) 39
6. What are the advantages of using pointers? How are pointers declared and initialized? How the value of a variable is accessed using pointers? Give examples. 1)33 1.5)49
7. Explain about structures and Write a Program using structure to read and display the information about an employee. 1.5)65
8. Explain in detail about the formatted I/O, character I/O, string I/O, record I/O file function with example programs? 1.5)83 2)12
9. Write about Random Access and sequential access to a file? 1.5)81 and 89
10. Explain in detail about file manipulations? 1.5)95
11. Define singly linked list. Write routine for insertion and deletion (begin,middle,end) of an element in singly linked list. 3)2 23
12. Define doubly linked list. Write routine for insertion and deletion (begin,middle,end) of an element in doubly linked list. 3)5 27
13. Define circular linked list. Write routine for insertion and deletion (begin,middle,end) of an element in circular linked list. 3)6
14. What is the stack ADT? Give array implementation of Stack ? 3)11 36
15. Explain about Circular queue with example. 3)18 34
16. Define stack . How will you decide stack full and stack empty? 14
17. What is the queue ADT? Give linked list implementation of queue? 3)15 41
18. Describe Equivalence Relations. Write down the algorithm for dynamic euivalence Problem.
19. Explain Open addressing with its probing in detail.
20. Explain separate chaining and extendible hashing. 5)12
21. Write about the different types of hashing techniques in detail. 5)11
22. What is meantby open addressing? Explain the collision resolution strategies in detail.

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