Comilla University

Faculty of Engineering

Department of Computer Science and Engineering

B.Sc. (Engg.) 2nd Year 2nd Semester Final Examination 2019

Session: 2017-18

Course Code: CSE-2207 Course Title: Concrete Mathematics

Answer any Four (04) questions

Time: 2 hours What is Dynamic Programming? Describe the properties of Dynamic Programming. a) The Tribonacci series of a generalization of the Fibonacci sequence where each term is b) the sum of the three terms. The tribonacci sequence: 0,0,1,1,2,4,7,13,.. so on #include <iostream> using namespace std; int printTrib(int n) int dp[n]; dp[0] = dp[1] = 0;dp[2] = 1;for(int i = 0; i < n; i++) cout<<dp[i] << " "; // Driver code int main() int n = 10;

- Using Euclidean algorithm find the GCD of 2322 and 654. a)
- 178! Ends in a string of zeros. How many zeros are in this string? b)

c)

printTrib(n); return 0;

What is the output of this code: int recur(int n){

if(n==0)return 0; recur(n-1); cout<<n<<endl; } int main() int i=10;

recur(i); return 0;

You have a large pizza. You can make N straight cuts with a pizza knife on that pizza.

Determine maximum numbers of pizza slices that you can get.

Marks: 30

3

2.5

2

