EEL 852 MAJOR

Date : .1.12.2006. Time : 13:00 hrs. Duration : 2 hour Max. Marks : 50

 (2×4)

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1. Identify errors, if any, in the following statements:
              #include <iostream.h>
       (a)
               int main()
               { // prints "Hello, World!" :
                 cout << "Helio, World! \n"
       (b)
              cout << "Enter n: ";
              cin >> n;
              if (n < 0)
                 cout << "That is negative. Try again." << endl;
                                           11. 图1. 英种的
                 cin >> n:
              else
                 cout << "O.K. n = " << n << endl;
       (c)
              while (n \le 100)
              sum = n^*n;
              float x = 3.14159;
       (d)
              float* p = &x; ----
              short d = 44;
              short* q = &d;
              p = q;
                                                                                            (2 \times 4)
2. What will be the output of the following:
       (a)
              m%++n
                                      (m=25, n=7)
                                      (m=25, n=7)
       (b)
              ++m - n-
       (c)
              int main()
              { for (int i=0; i<8;i++)
                        if (i\%2 == 0) cout << i+1 << endl;
                        else if (i%3 == 0) continue;
                        else if (i\%5 == 0) break;
                        cout << "End of program. \n";
                 cout << "End of program. \n";
              char* s1 = "ABCDE";
       (d)
              char* s2 = "ABC";
              if (strcmp(s1, s2) < 0) cout << s1 << " < " << s2 << endl;
              else cout << s1 << " <= " << s2 << endl:
```

3. Write four different C++ statements, each substracting 1 from the integer n.

(2)

- Write a program that uses a. a. while loop

 - b. for loop
 - c. do while loop

to compute and print the sum of a given number of squares. For example, if 3 is input, then the program will print 14 $(1^2+2^2+3^2)$. If 5 is input, it prints 55 $(1^2+2^2+3^2+4^2+5^2)$.

가지 : 그 가장 <u>된 공</u>과 김희생 (1

 (3×4)

5. Write a int digit (int n, int k) function which returns the kth digit of the positive integer n. For example, if n=29415, then the call digit (n, 0) would return the digit 5, and the call digit (n. 2) would return the digit 4.

(5)

Create a class GRADE having two data members of float type such as Math marks and Eng. marks. GRD1 and GRD2 are two objects of class GRADE. Write a complete C++ programme to add marks of GRD1 and GRD2 such that TGRD=GRD1+GRD2 by overloading the '+' operator. Display the Math_marks and Eng_marks of GRD1, GRD2 and TGRD.

(5)

Write a programme that reads text from a file named X and copies its contents to another file named Y such that the file Y is identical to the file X except that every sequence of consecutive blank spaces is replaced by a single blank space.

(5)

8. Write a circle class. Each object of this class will represent a circle, storing its radius and the x and y coordinates of its center as float. Include a default constructor, access functions, an area() function and a circumference() function.

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