XI - COMPUTER SCIENCE - TERM 1 EXAM (ii) if a=10, x=a++%5+++a+++a(Except Arrays and Structures Chapters) 3.c) Write the equivalent C++ expression for the (2) following arithmetic expressions: 1.a) What do you understand by booting? $i)(a+b+c)^3+2ab+ab^2$ ii)Ut + $\frac{1}{2}$ at² Write its types. (2)iii) $\sqrt{(p+q)+x^2}$ iv)P(1+r/100)n 1.b) What is cache memory? d) How many bytes make 1 terabyte? (1) Write its advantages. (2) 4.a) Write the output of the following code: (3)1.c) Discuss the basic composition of a simple #include<iostream.h> microprocessor. (2) int main() 1.d) Differentiate between freeware and { unsigned int a,b,c,l; shareware. (2) a=1: b=2; 1.e) Define operating system with its two cout<<a<<b; functions. (2) for(i=0;i<5;i++) 1. f) Explain tracks & sectors in a hard disk. c=a+b; 1.g)Convert according to given their base address(2) cout<<c; a=b; $(4502)_{10} \rightarrow ()_{16} \rightarrow ($ $)_2 \rightarrow ($)8 b=c; 1.h) Define compiler, Non-volatile memory, application software, USE port. (4) 4.b) Convert the following if-else to a single conditional statement. (1) 2.a) What is polymorphism? (2) if(aty>=20)order=max+5; 2.b) Write the characteristics of a good program. (2) else 2c) What do you mean by Abstraction and Encapsulation? order=max; How are these two terms interrelated? (4)4.c) Write a program to print the following series. (4) 2.d) How many types of errors are there? -10-40 7 Discuss each with example. (4) 4.d) Write a program to check that the given 2.e)Draw a flow chart to find the sum of first 50 number is prime number or not. (4)even numbers. (4)4.e) Write a program to swap the two numbers 2.f) What is the role of comments and indentation in without using third variable. (3) a program? (4)4.f) Write a program to input any number and print 2.g) Write all the steps of Problem Solving the output in the following manner: (3) (4) Methodology. le Suppose input is 4 then output must be Your number is 4 3.a) What will the size of constants: (2) It's square is 16 (ii)"\a" (i)'\0' (iii)7.88 (iv)39872 And square root is 2 3.b) What will be value of x for following expression (2) 4.g) Write a program to input three integers and

print the largest of three.

(3)

if a=5, b=7, c=10, d=13.

(i) x=c!=a*b?++b: (b=16,b+=2, b - -)