This	Question Paper consist	s of 6 question	ons and 7	printed p	ages.		
Roll	No.				Co	ode No. 5	59/OSS/2
					SE	т <u>А</u>	<u> </u>
		COMPU	JTER (330		CE		
Day	and Date of Examinati	on			9. CO.		
Sign	ature of Invigilators	1					
Gen	eral Instruction:	YO!					
1	Candidate must write	his/her Roll	Number	on the fi	rst page of th	ne Questi	on Paper.
2	Please check the Quest contained in the Quest page. Also check to	stion Paper a	re the sai	me as thos	se printed on	the top	•
3	Making any identification other than the specification				_		•
4	Write your Question	Paper Code	No. 59/(OSS/2, S	et-A on the	e Answer	-Book.
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COMPUTER SCIENCE

(330)

Time	: 3	Hour	s] [Max	kimum N	Marks : 60
Note	:	(i)	Answer all questions.		
		(ii)	Marks allotted to each question are given on the r	ight-han	d side.
		(iii)	Use C++ programming language to answer the progra	ımming	questions.
1	Def	ine th	ne following :		4×1=4
	(a)	FTP			
	(b)	Sort			
	(c)		hmetic Logic Unit		
	(d)	Tasl			
2	(a)	Des	cribe the functions of the following input devices:		3×2=6
		(i)	Keyboard		
		(ii)	Scanne		
		(iii)	Morse		
	(b)	Exp	lain the Data Processing Cycle.		2
	(c)	Clas	sify Computer Language.		2
	(d)	Disc	cuss Digital Transmission and Analog Transmission.		2
3	(a)	Nan	ne the header files to which following built-in functi	on	2×1=2
		belo	ng:		
		(i)	getchar()		
		(ii)	isalpha()		
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(b) Explain the following terms with examples from C++. $2\times2=4$ Abstraction (i) Encapsulation Write a C++ statement using Conditional Operator to display 2 maximum between three numbers a, b, c. (d) Explain the branch statement if-else with illustration. 2 2 Write a function in C++ to calculate and display the sum of digit of a number. The number is passed as argument to the function. What is the difference between = and ==operator? Give an example 2 in support of your answer. Find the syntax error from the following program. Justify each error. 2 #include<iostream.h> {

```
{
    counter; The argument is'<<p;
}
void main ()
{
    float q = 11.1;
    display (p);
}</pre>
```

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```
(c) Write the output of the following program:
                                                                    3
        #include<iostream.h>
        int p=4;
        int change (int & v, int n=1)
        {
             v=v*n;
             n=v--/4;
        void main ()
        {
            int p=50, q=10;
            change (::p, q);
            cout<<p<<"####"<<q<<endl;
            change(p);
            cout<<p<<"####"<<q<<endl;
            change (q, 10);
            cout<<::p<<"####"<<q<<endl;
    (d) Write a function VERIFY ( ) in C++ that accepts a character as an
                                                                    3
        argument and checks whether it is a digit or not.
    (a) Predict the output of the following program:
                                                                    2
5
        #include<ios ** am.h>
        #include<cope.h>
        #include tdio.h>
        void ()
            char Text[]="#GO2D";
             for (int i=0; Text[i]!='\0';i++)
                 if(!isalpha(Text[i]))
                     Text[i]='*';
                 else
                     Text[i] = Text[i+1];
            puts(text);
        }
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                                                              [Contd...
```

Private Members:

Match index Numeric

Venue String

Date String

Team1 String

Team2 String

Public Members:

- " A constructor that initializes all numeric members with 0 and all strings with "ABC"
- " Accept()_that accepts the entire data
- " Display()_that displays the entire data
- (c) Consider the following class definition and answer the questions that follow:

```
class Toys
{
    char tow_type[10];
    profected:
        float price;
        void cal_price(float);
    public:
        Toys();
        char choice;
        void toyinput();
        void toyshow();
};
```

[Contd...

```
class MyToys : protected Toys
          {
              charmtoy name[10];
              float weight;
              protected:
                   int no wheels;
              public:
                   void MyInput();
          };
              Which type of inheritance is shown in the above example?
         (i)
              Which all data members are accessible from MyInput()?
         (iii) Name the member functions which are accessible from the
              object of class MyToys.
         Write a program to find the smallest number in an integer array of
    (d)
                                                                              3
         size 15.
         Which statement is used to create an alias of a datatype?
                                                                              1
6
     (a)
         Declare a structure ADDRESS having HouseNo(int), Locality(string),
                                                                              2
    (b)
         Street(string) and City(string) as its members. Thereafter create another
         structure ADMISSION having the following members:
                             of type integer
         Adm No
         Name
                             of type string
         Category
                             of type string
                             an instance of ADDRESS
         S Address
         Write a C++ statement to accept the value of Locality form the user.
         Give a C++ statement to do the following:
                                                                              2
              Create an integer pointer ptr.
         (ii) Make ptr hold the address of integer variable var.
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                                       6
                                                                       [Contd...
```

3

(d) Assuming the class HEALTH-STATION defined below, write a user defined function to read the objects of HEALTH STATION from the binary file Hospi.dat and display the records of only 'Cardiology' department.

```
class HEALTH STATION
{
        int Patient Id
        char Patient Name[13];
        char OPD Date[10];
        float fees;
        char Dept[20];
   public
        void enterdata()
    {
        cin>Patient Id;
        gets(Patient name);
        gets (OPD Date);
        cin>>fees;
            wdata(
       <Patient I<<Patient Name<<OPD Date<<fee<<Dept;
         💆 getdept ()
        return Dept;
};
```

(e) Explain the two methods to open a data file in C++.

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