This Ç	Question Paper consi	sts of 6 question	ns and 8	printed pa	iges.	
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	ral Instructions:	e Ms/her Roll N	Number	on the first	page of the Qu	estion Paper.
Q	Please check the Quiquestions contained of the first page. Also	in the Question	n Paper a	are the sam	e as those printe	ed on the top
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4. V	Write your Question	n Paper Code N	No. 58 /	OSS/ 1, Se	t - C on the An	iswer-Book.
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COMPUTER SCIENCE (330)

Time: 3 Hours] [Maximum Marks: 60

Answer all questions. **Note** : (i)

- Marks allotted to each question are given in the right-hand margin.
- (iii) Use C++ programming language to answer the programming questions.
- Define the following: 1.

- Telnet a)
- Topology b)
- c) Sorting
- d) www
- In the between the Distinguish between the following. 2.
- $[2 \times 3 = 6]$

- Compiler and interpreter i)
- Shell Connection and TCP/IP Connection ii)
- 3 GLs & 4 GLs iii)
- Explain any three characteristics of JAVA. b)

[3]

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2



rs for sharing files and	o types of access that you can give the users ched to your Computer.	c)
l files on a network.[1]	otocol that is used to upload and download f	d)
$[2\times 2=4]$	following terms with example from C++.	a)
	etion	
and a	orphism	
ons belong. $[1 \times 2 = 2]$	ader files to which following built-in functio	b)
ning variable, constants	following dentifiers cannot be used for nami in a program:	c)
[1]	Value, MAIN, Char, While.	
the following series [3]	gram to accept a number n and print the factor of the fact	d)
Conversion. Give one [2]	ference between Implicit and Explicit Type Ceach to support your answer.	e)
•	integer variable num. Write a C++ statemed isplay "ODD" if the number is odd and "E	a)

3.

4.

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```
#include<iostream.h>
          void main()
          {
               static int i = 5;
               if (i > 0)
               {
                    cout << i--;
                    main();
               }
          }
          Write a program VERIFY() in C++ which accepts a character as an argument
     c)
          and cheeks whether it is a digit or not.
                                                                                    [3]
          Find the syntax error from the following program. Justify each error.
     d)
                                                                                    [2]
          #include<iostream.h>
          void exam(float
          {
                       'The argument is'<<a2;
          }
          void main()
          {
               float a1 = 11.0;
               exam(a2);
          What is the difference between || and && operators. Give example in support
     e)
          of your answer.
                                                                                    [2]
                                                                             [Contd.....
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```

[3]

Write the output of the following program:

b)

5. a) Define a class 'World Cup' with the following specifications :

[3]

Private members:

Match - ID Numeric

Venue String

Date String

Team 1 String

Team 2 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.
- b) Predict the output of the following program:

[2]

```
#include<iostream.h>
```

```
int main(void)
```

{

while 1!=97)

i-

while (i > 65)

i- -;

Printf("%c",i)

return 0;

}

c) Write a program to find the largest number in an integer array of size 10. [4]

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[Contd.....

Consider the following class definition and answer the questions that follow: d) [3] Class Library { int Book_ID; protected: char author [6]; char date of issue [8]; public: void accept (); void display (); **}**; Class Magazine: protected Library { float prince; void inputdata(); void outputdata(); **}**; i) Name the base class and the derived class. ii) Which all data members are accessible from inputdata ()? Name the member functions which are accessible from the object of iii) class Magazine.

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[Contd.....

6. a) Declare a structure ADDRESS having House No (int), Locality (string), Street(string) and City (string) as its members. Thereafter create another structure ADMISSION having the following members:

```
Adm _ No of type integer

Name of type string

Category of type string

S address an instance of ADDRESS
```

Write a C++ statement to accept the value of locality from the user. [2]

b) Which statement is used to create an allias of a datatype. [1]

c) Assuming the class HOSPITAL defined below, write a user defined function to read the objects of HOSPITAL from binary file Hospi, dat and display the records of only 'Surgical' dept. [3]

```
Class HOSPITAL

{
    int Patient = Id;
    char Patient _ Name [13];
    char OPD _ Date [10];
    float fees to char Nept [20];

Public: void enter.data()

    cin>>Patient_Id;
    gets(Patient_name);
    gets(OPD_Date);
    cin>>fees;
    gets(Dept);
}
```

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[Contd.....

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```
void showdata ()
          {
               cout<<pre>cout<<pre>cout<<pre>cout<</pre>
                     Name << OPD Date <<
                     fees<<Dept;
          }
          char[] getdept()
               return Dept;
     // end HOSPITAL
Explain the two methods to open a data file in C++;
                                                                           [2]
Give a C++ statement to do the following:
                                                                           [2]
     Create an integer pointer ptr.
i)
     dennitivated first the address o
     Make pointer hold the address of the integer variable var.
ii)
```

d)

e)

