इस प्रश्न-पत्र में 39 प्रश्न तथा 12 मुद्रित पृष्ठ हैं।

Roll No.

अनुक्रमांक

Code No. 67/TUS/2
कोड नं०
Set/सेट А

This Question Paper consists of 39 questions and 12 printed pages.

COMPUTER SCIENCE (330)

Day and Date of Examination (परीक्षा का दिन व दिनांक)		
Signature of Invigilators (निरीक्षकों के हस्ताक्षर)	1.	
	2.	

General Instructions:

- 1. Candidate must write his/her Roll Number on the first page of the Question Paper.
- 2. Please check the Question Paper to verify that the total pages and total number of questions contained in the Question Paper are the same as those printed on the top of the first page. Also check to see that the questions are in sequential order.
- 3. Making any identification mark in the Answer-Book or writing Roll Number anywhere other than the specified places will lead to disqualification of the candidate.
- 4. Write your Question Paper Code No. 67/TUS/2, Set A on the Answer-Book.

COMPUTER SCIENCE (330)

Time: 3 Hours [Maximum Marks: 60

Note: (i) This question paper consists of 39 questions in all.

- (ii) All questions are compulsory.
- (iii) Marks are given against each question.
- (iv) **Section-A** consists of
 - (a) Q. Nos. **1** to **12**—Multiple Choice-type Questions (MCQs) carrying *1* mark each. Select and write the most appropriate option out of the four options given in each of these questions. An internal choice has been provided in some of these questions. You have to attempt only **one** of the given choices in such questions.
 - (b) Q. Nos. **13** to **24**—carry 1 mark each and Q. Nos. **25** to **27**—Objective-type Questions of 2 marks each (with 2 sub-parts of 1 mark each). An internal choice has been provided in some of these questions. You have to attempt only one of the given choices in such questions. Attempt these questions as per the instructions given for each of the questions.
- (v) **Section-B** consists of
 - (a) Q. Nos. **28** to **35**—Very Short Answer-type Questions carrying 2 marks each to be answered in the range of 30 to 50 words.
 - (b) Q. Nos. **36** and **37**—Short Answer-type Questions carrying 3 marks each to be answered in the range of 50 to 80 words.
 - (c) Q. Nos. **38** and **39**—Long Answer-type Questions carrying 4 marks each to be answered in the range of 80 to 120 words.
- (1) Answers of all questions are to be given in the Answer-Book given to you.
- (2) 15 minutes time has been allotted to read this question paper. The question paper will be distributed at 2:15 p.m. From 2:15 p.m. to 2:30 p.m., the students will read the question paper only and will not write any answer on the Answer-Book during this period.

SECTION-A

1. (i) The _____ tag in HTML allows the user to create an image in Web page.
(A) <image> (B) (D) <im>

 $\bigcirc r$

							O/								
	(ii)	The Web	 page.	attribu	te is	used	to sp	ecify	the	URL	of	image	for	the	
		(A)	src					(B)	alig	n					
		(C)	borde	er				(D)	heig						
2.	(i)	File >	> Print	in pres	entat	ion is	equal t	. 0							
		(A)	Ctrl+	N				(B)	Ctrl	+Q					
		(C)	Ctrl+	Р				(D)	Ctrl	+S					1
							Or								
	(ii)	Ctrl+	N in 1	presenta	ation	is equ	al to								
		(A)	Save					(B)	Sav	e As					
		(C)	New					(D)	Prin	ıt					
3.	<ol< th=""><th>.>tag</th><th>is use</th><th>d to cre</th><th>eate a</th><th>an</th><th> list</th><th>in H</th><th>ΓML.</th><th></th><th></th><th></th><th></th><th></th><th>1</th></ol<>	.>tag	is use	d to cre	eate a	an	list	in H	ΓML.						1
	(A)	unor	dered					(B)	orde	ered					
	(C)	orgar	nised					(D)	uno	rganis	sed				
4.	sqrt(x) is a function in C++.									1					
	(A) string						(B)	mat	hema	tica	1				
	(C)	chara	acter					(D)	text						
5.	(i)	Whic	h of th	ne follow	ing i	s 118ed	for ma	aking	a tex	rt itali	c in	нтмі	. 2		1
٠.	(9	(A)	<itali< th=""><th></th><th>1116 1</th><th>doca</th><th>101 1110</th><th>(B)</th><th></th><th>lics></th><th>C 111</th><th>1111111</th><th></th><th></th><th>_</th></itali<>		1116 1	doca	101 1110	(B)		lics>	C 111	1111111			_
		(C)	<i>>i></i>					(D)		titalic	' >				
		(0)	11				Or	(D)	102	reneanc	<i></i>				
	(ii)	Whic BOL		the foll	-		sed fo	or dis	splay	ing tl	he t	text "l	NIOS'	" in	
		(A)		NIOS 1</th <th>_</th> <th></th> <th></th> <th>(B)</th> <th></th> <th><u>Nl</u></th> <th>ios.</th> <th><1</th> <th>b></th> <th></th> <th></th>	_			(B)		<u>Nl</u>	ios.	<1	b>		
		(C)	<1	u>NIOS				(D)	<ub< td=""><td>>NIOS</td><td>S<!--1</td--><td>ub></td><td></td><td></td><td></td></td></ub<>	>NIOS	S 1</td <td>ub></td> <td></td> <td></td> <td></td>	ub>			
6.	(i)		is us	ed to rep	orese	nt tags	in HT	ML.							1
		(A)	[]					(B)	< >						
		(C)	()					(D)	{ }						
				Or											
	(ii)	Face	is the	e attribu	ite of	·	tag.								
		(A)	<body< th=""><th>y></th><th></th><th></th><th></th><th>(B)</th><th><htr< th=""><th>ml></th><th></th><th></th><th></th><th></th><th></th></htr<></th></body<>	y>				(B)	<htr< th=""><th>ml></th><th></th><th></th><th></th><th></th><th></th></htr<>	ml>					
		(C)	<font< th=""><th>></th><th></th><th></th><th></th><th>(D)</th><th><im< th=""><th>age></th><th></th><th></th><th></th><th></th><th></th></im<></th></font<>	>				(D)	<im< th=""><th>age></th><th></th><th></th><th></th><th></th><th></th></im<>	age>					

7.	(i)	A pointer is a variable that represent such as	ents	the lcoation of a data item	
		(A) variable	(B)	array element	
		(C) Both (A) and (B)	(D)	program	1
		Or			
	(ii)	Find the output produced by the following all the header functions are included void main() { int a=22; int *b=&a *b=*b+2; cout<<*b; }		ng program segment. Assume	
8.		_ file format is the best option for in	mage	es with transparency effects.	1
		jpg		jpeg	
	(C)		(D)	png	
_	, ,		` ,		1
9.		attribute is used to specify the the		•	1
	(A)	Width	(B)	Size	
	(C)	Border	(D)	Noshade	
10.	the	_ is a component of the OpenOffice name of the file and name of the kimize and close buttons.	_	_ ·	1
	(A)	Workspace	(B)	Title bar	
	(C)	Cell	(D)	Status bar	
11.		features allows us to embed objecteo, etc. in our document.	ts lil	ke charts, pictures, audio,	1
	(A)	Object-linked evidence			
	(B)	Object linking and embedding			
	(C)	Oral limited embedding			
	(D)	None of the above			
12.	(i)	Autofill feature of OpenOffice Calc datatypes? (A) Numerical	sup _j	ports which of the following String	1
			(D)	<u> </u>	
		(C) Both Numerical and String	(ש)	Notic of the above	

Or

	(ii	Active	cell	in	OpenOffice	Calc is	identified	bv	having
١	1	TICLIVC	CCII	111	Openonice	Carc 13	idelitation	υy	maving

- (A) yellow colour filled on it
- (B) red colour border across it
- (C) thick black outline
- (D) thick red outline

13. Expand ISP.

1

14. (a) The octal equivalent of $(200)_{10}$ is _____.

1

1

Or

- (b) The binary equivalent of 45 is _____.
- **15.** (a) What will be the output produced by the following program if the value of the variable x is 15 and y is 6?

#include<iostream.h>
int main()
{
 int x, y;
 cin>>x>>y;
 if(x>y)
 cout<<"Smiley face";
 else
 cout<<"Sad face";
}</pre>

Or

(b) What will be the output produced by the following program if the value of the variable x is 3 and y is 4?

```
#include <iostream.h>
void main()
{
   int x, y, z;
     cin>>x;
   cin>>y;
z=x*x+y;
if(x>y)
   cout<<"Good morning";
   else
   cout<<"Good evening";
}</pre>
```

```
1
16. (a) The decimal equivalent of (D2A)<sub>16</sub> is _____.
    (b) The decimal equivalent of the binary number is 1100 is _____.
17. (a) Which tag is used to create a paragraph in a Web page?
                                                                                 1
    (b) Which tag is used to create link break in a Web page?
18. (a) What is the header file for acos(x)?
                                                                                 1
                     Or
    (b) What is the header file for isdigit(c)?
19. What is the ASCII value of 'A'?
                                                                                 1
                                                                                 1
20. Expand WWW.
21. Consider the following program. What output will be produced if the
    value for the variable ch is entered as 'B'?
                                                                                 1
         #include <iostream.h>
         void main()
             char ch;
             cin>>ch;
             switch(ch)
             case 'A':
                             cout<<"A Grade"; break;
             case 'B':
                             cout<<"B Grade";
             case 'C':
                             cout<<"C Grade"; break;
             case 'D':
                             cout<<"D Grade"; break;
             default:
             cout<<"NO Grade";
```

```
22. (a) What will be the output produced by the following code?
                                                                                 1
         #include<iostream.h>
         void main()
           int i, s=0;
            for(i=1;i<5;i++)
               s=s-i;
               cout<<s;
        }
                  Or
    (b) #include <iostream.h>
         int main()
         {
         int i=0, s=0;
         while (i < 5)
           \{ s=s-i;
             i++;
           cout<<s;
23. (a)
        Write a C++ program to create a structure named STUDENT using the
         following members:
                                                                                 1
         Name: string of 20 characters
         Marks: integer number
                          Or
    (b) What does the following statement do?
         typedef int b;
24. What will be the output produced by the following code snippet? Assume
    all header files included:
                                                                                 1
    #include<iostream.h>
    void change(int);
    void main()
```

Unnati Educations [P.T.O.

9899436384. 9654279279

```
int a = 5;
       cout<<"a="<<endl:
       change(a);
       cout<<"a="<<a;
    }
    void change(int b)
       b=20;
25. Fill in the blanks (any two):
                                                                             1 \times 2 = 2
    (a) The output stream in file handling requires ____ header file.
    (b) seekg() moves ____ to a specified location.
    (c) Input pointer is also known as _____.
    (d) The function open() have ____ parameters.
26. State whether the following statements are True or False (any two): 1×2=2
    (a) Considering the structure variable student, student ptr declares a
         pointer variable ptr to a student.
    (b) Object pointers are used to create objects during runtime.
    (c) A pointer is a user defined function which is equal to a simple variable
        in C++.
27. Give one word for the following blanks (any two):
                                                                             1 \times 2 = 2
    (a) ____ means arranging data in ascending or descending order.
    (b) ____ is the combination of absolute and relative referencing.
    (c) _____ feature of OpenOffice Calc blocks or hides the data based on
         specified criteria for a column.
    (d) A ____ is a form of pictorial representation of data.
    (e) _____ is used as prefix in front of formula.
```

SECTION—B

28. (a) Explain radio wave transmission.

2

Or

- (b) Explain router.
- **29.** (a) What do you mean by data integrity?

2

Or

- (b) Define relational database.
- **30.** Write SQL queries for the following based on the TEACHER table given below: 2

TEACHER							
TID	NAME	AGE	GENDER				
T01	ARJUN	36	M				
T02	RAJU	45	M				
T03	SUMA	58	F				
T04	KIRAN	44	F				
T05	JENNI	38	F				

- (a) Insert the record T06, VARUN, 45, M into the table TEACHER.
- (b) Display the details of the teachers whose age is above 40.
- **31.** Write the steps to move a selected text in Office Writer.

2

- 32. Define empty element in HTML and also provide an example.
- 2

33. Consider the following code segment :

2

#include<string.h>
#include<string.h>
struct emp { char empname[20]; int salary; };
void main(){
_____// statement 1

cin >> struct6.empname;
____ // statement 2

Complete the above code for the following:

Statement 1: Create two variables struct6 and struct7 of type emp.

Statement 2: Display the value of the variable empname of the structure variable struct6.

34. Write SQL queries to create the following TEACHER table :

	TEACHER	
TID	VARCHAR(6)	PRIMARY KEY
NAME	VARCHAR(15)	
AGE	INT(2)	
GENDER	CHAR	

Or

Define decimal and date datatypes.

35. Define the following terms (any two):

 $1 \times 2 = 2$

3

2

- (a) Object
- (b) Member functions
- (c) Destructor
- (d) Parameterized constructor
- **36.** Create a Web page using the following instructions:

(a) The background of the Web page should be yellow.

- (b) The heading "My Web page" should be in center of the Web page in Arial Bold font with size 6.
- (c) An image to be set having the file name "niosB.jpg" with height=20 and width=15.

```
37. Define the following terms (any three):
                                                                              1 \times 3 = 3
    (a) Tuple
    (b) Candidate key
    (c) Schema
    (d) Logic data model
    (e) Relation
38. (a) Answer the questions from (i) to (iv) based on the following code,
         assume all header files are included:
                                                                                   4
         class Emp{
         int Empno;
         char Ename[20];
         float salary;
         protected:
         void Res();
         public:
         Emp();
         void Enr();
         void Disp();
         };
         class Emp1{
         long Emp1code;
         char Emp1Name[20];
         protected:
         float salary2;
         public:
         Emp1();
         void Enter();
         void Show();
         };
         class Training: public Emp, private Emp1{
         long Trcode[10];
         char TrName[50];
         char StartDate[8], EndDate[8];
         public:
         Training();
         void Commence();
         void CDetail();
         };
```

- (i) Write the names of member functions which are accessible from objects of Class Training.
- (ii) Write the names of all the data members which is/are accessible from member function Commence of Class Training.
- (iii) Write the names of all the members which are accessible from objects of Class Emp1.
- (iv) Which type of inheritance is illustrated in the above C++ code?

Or

- (b) Define multilevel inheritance. Display the structure by taking an example with proper syntax.
- **39.** (a) Write a program to create an array of N elements, accept a location and number from the user. Insert the accepted number after the location in the array and print the new array.

Or

(b) Write a C++ program that accepts two numbers from the user and passes to a function, the function will subtract the accepted numbers and return the difference to the main program which display the output to the user.

* * *

Unnati Educations 9899436384, 9654279279

4