



Sri Shridevi Charitable Trust (R.)

SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Recognised by Govt. of Karnataka, Affiliated to VTU, Belagavi and Approved by AICTE, New Delhi)

Sira Road, Tumakuru - 572 106. Karnataka.



An ISO 9001:2015 Certified Institution

Phone: 0816-2212629 | Fax: 0816-2212628 | Email: info@shrideviengineering.org | Web: <http://www.shrideviengineering.org>

CAREER COUNSELING



Sri Shridevi Charitable Trust (R.)
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YEAR	2020-21
EVENT	Expert Lecture on IOT and Cloud Platform
NUMBER OF PARTICIPANTS	40
DOCUMENTS ATTACHED	Circular
	Brochure
	Feedback

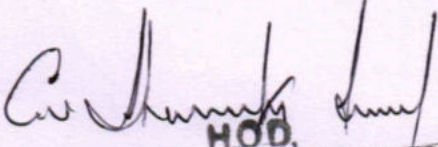


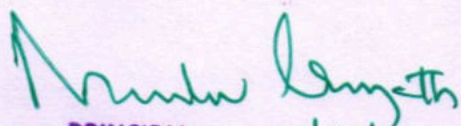
DEPARTMENT OF COMPUTER SCIENCE

Date: 10/06/2020

CIRCULAR

As we have noticed that during the covid lockdown our students are missing the opportunity to be part of any event in the college. So we are glad to inform that our department is conducting online Expert Lecture on "IOT and cloud platform" on 13th June, 2020. I request all the students to join online and can gain opportunity towards your career. The resource person is our Alumni Mr. Sujith Yardi, Chief Engineer at Pune. He is glad to address your doubts and enlighten you with his experience. So stay tuned, don't miss the opportunity.


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COMPUTER SCIENCE & ENGG.,
SIET, TUMAKURU-06.


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TUMKUR - 572106. 10/6/20

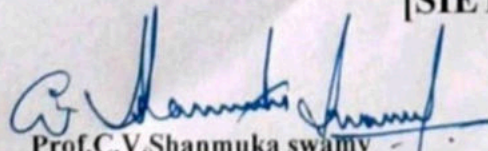
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

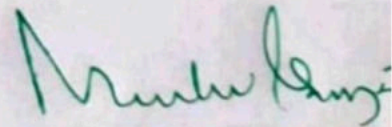
Expert Lecture
on
“IOT and Cloud Platform”
on 13th June -2020 at 11 AM

The Department of CSE is Conducting a series of Expert Lectures for the benefit of students during the Lockdown from the experts from Industry, Academia and Research.



Mr. Sujith Yardi
Chief Engineer,
Devise Electronics, PUNE
[SIET Alumni]


Prof. C. V. Shanmuka swamy
Associate Professor and HoD, CS&E


Dr. Narendra Viswanath
Principal



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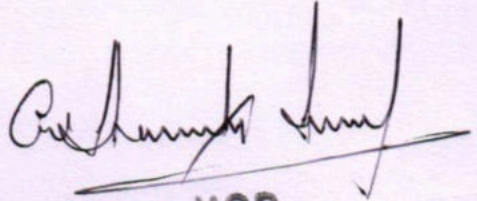
YEAR	2020-21
EVENT	Expert Lecture on Cloud and Devops
NUMBER OF PARTICIPANTS	40
DOCUMENTS ATTACHED	Circular
	Brochure
	Feedback

DEPARTMENT OF COMPUTER SCIENCE

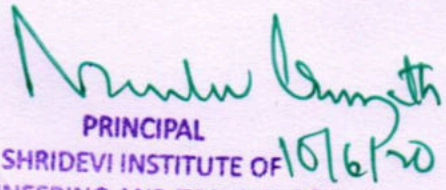
Date: 10/06/2020

CIRCULAR

As we have noticed that during the covid lockdown our students are missing the opportunity to be part of any event in the college. So we are glad to inform that our department is conducting online Expert Lecture on "Cloud and Devops" on 15th June, 2020. I request all the students to join online and can gain opportunity towards your career. The resource person is our Mr. Aravind Belavadi, Lead Engineer, Unisys, Bangalore. He is an industry expert and will also guide you towards research fields. So stay tuned, don't miss the opportunity.



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Expert Lecture

on

“Cloud and DevOps”

on 15th June -2020 at 8.30 AM

The Department of CSE is Conducting a series of Expert Lectures for the benefit of students during the Lockdown from the experts from Industry, Academia and Research.



Mr. Arvind Belavadi

Lead Engineer,

SRE Practice,

Unisys, Bengaluru

[SIET Alumni]

Prof.C.V.Shanmuka swamy
Associate Professor and HoD,CS&E

Dr. Narendra Viswanath
Principal



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EVENT	Expert Lecture on IOT and Cloud Platform
NUMBER OF PARTICIPANTS	40
DOCUMENTS ATTACHED	Brochure
	Resource Person Details
	Report
	Schedule
	Photo
	Media report



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Sira Road, Tumakuru - 572 106, Karnataka

Department of Computer Science & Engineering

Cordially Invite you for the Inauguration of

A Two Day Workshop on

Hands on R - Programming

Inauguration by

Dr. M. R. HULINAYKAR

Chairman & Managing Trustee,
Sri Shridevi Charitable Trust (R.), Tumakuru

Sri. M. S. PATIL

Director - HR & IT, SCT, Tumakuru

Chief Guest

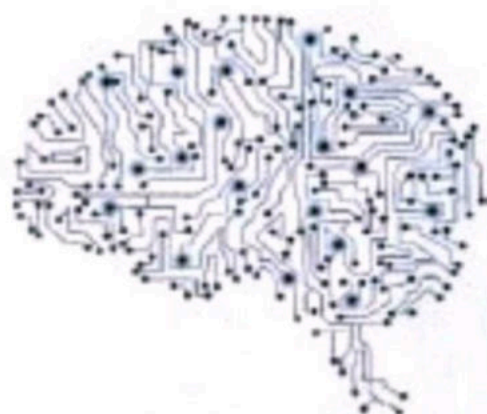
Dr. N R Sunitha

Professor, Dept of CSE,
SIT, Tumkur

President

Dr. Narendra Viswanath

Principal, SIET, Tumkur



Conducting under:



CSI - SIET STUDENT CHAPTER

Date: 20 September, 2021

Time: 9:00 AM

Venue: Edusat Hall, SIET Main Block

Dr. Charan K V,

Associate Professor,
Department of CSE, SIET,
Tumkur

Prof. SHANMUKA SWAMY C. V.

Associate Professor & Head - CSE
Convener



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CSI - SIET STUDENT CHAPTER

Department of Computer Science & Engineering

Welcome to A Two Day Workshop on Hands on R - Programming

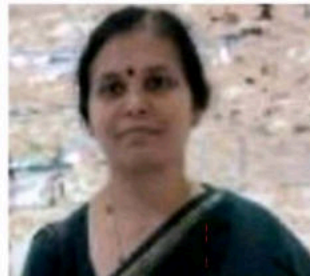
Date: 20th - 21st September 2021

Time: 9:00 AM TO 5:00 PM

Venue:

Network lab

Dr. N R Sunitha - Summary Biodata



Dr.N.R.Sunitha, is Professor in the Department of Computer Science &Engg. at Siddaganga Institute of Technology, Tumkur. She obtained her engineering degree from Gulbarga University, Master's from BITS-Pilani and Ph.D from Visvesvaraya Technological University, Tumkur. She is working at SIT, Tumkur for the past 29 years. Along with teaching, she guides UG and PG students on Research projects. Two students are pursuing their Ph.D under her guidance and four students are awarded Ph.D under VTU. Her research interests include Information and Network Security, Storage Area Networks, HPC, Big Data Analytics, Machine Learning, Security issues in resource constrained environment and Blockchain Technology. She



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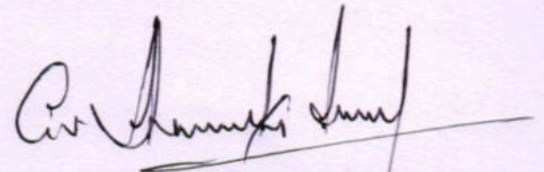
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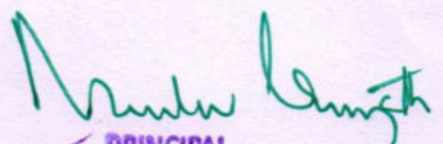


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has published 75 research papers in National /International Conferences and 27 papers in International Journals. She is the Reviewer and on Editorial Board of some of the reputed journals. She has executed 6 research projects funded by AICTE, DRDO and ABB GISL. Her Biodata is included in Marquis Who's is Who in Science & Engineering 2010. She received the IBM Mentor Award for the year 2014 and Women Achiever award from Institution of Engineers (India), Tumkur chapter for the year 2021. She has filed 6 patents and has a Copyright jointly with DRDO, New Delhi, on "*Formal Verification of Security Protocols in Network Devices*" dated: 21-10-2020.

Her administrative experience includes Head of the department during 2014-17, PG Co-ordinator, Research Council Convener, MHRD Institution Innovation Council President at SIT,CSI Branch-Councillor, IEEE WIE Mentor and NAAC, NBA & NIRF Co-ordinator


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Report on : A Two day Workshop on "R- Programming".
Conducted date : 20th to 21st Sep 2021
Venue : Network lab SIET, Tumakuru
Activity : Workshop

A Two day workshop on "R- Programming" was conducted by CSE Department under CSI-SIET student chapter in SIET, Tumakuru from 20-09-2021 to 21-09-2021 for Engineering students. The objective of this workshop was to train the students to develop software using R – Language, which helps in statistical computing , design and data analysis in Big Data.

The Inauguration function was held on 20-09-2021 in EDUSAT HALL . The programme was graced by Dr. Narendra Viswanath, Principal, SIET, Tumakuru, Dr. Sunitha N R, Professor, Dept of CSE, S.I.T, Tumkur, Prof. C.V. Shanmukaswamy, Convener, Associate Professor & Head, Dept. of CSE and Dr. Charan K V workshop co-ordinator,

In the key note address Dr. Sunitha N R, Professor highlighted the significance of R – Programming to the students. Mentioned that this workshop is a major entry point to the current world of programming. Dr. Narendra Viswanath, Principal, in his address described how India and China improving in technology. He motivated the students to effectively learn the modern languages for programming purpose by remembering initial days of Java language introduced in 1996. The event was closed by Thanksgiving.

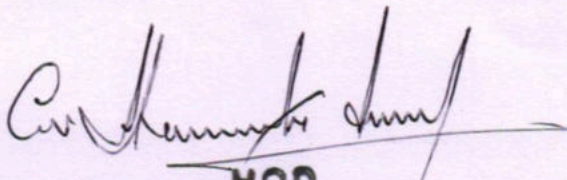
Master of ceremony : Prof. Kiran G M, Asst. Professor, CSE Dept.

Invocation by : Mr. Pramodh R, Sahana Y Gowda and Bindhushri 4th sem CSE students
welcoming speech by: Prof. C V Shanmukaswamy. Head, CSE dept.

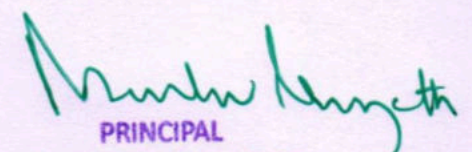
Guest Introduction : Prof. Chethan M S.

The key note address by : Dr. Sunitha N R,

Vote of Thanks : Dr. Charan K.V.



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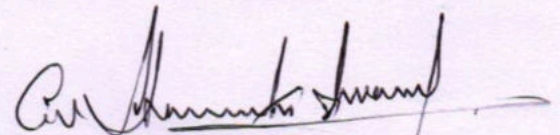
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On day-1 The session on first day started by making the students to install the required software . [like R Studio installed on Windows 7]. Students enjoyed by learning new R Language programs.

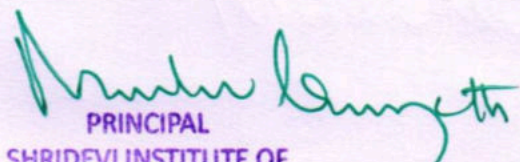
Session Number	Date	and time	Topics
1	Day 1 (20-09-21)	9:30 AM to 11:00 AM	Why R ? Basics of R and Installation, Simple Program
2		11:15 AM to 1:00 PM	Data Types, Variables, Operators, Decision making, loops, Programs.
3		2:00 PM to 3:30 PM	Functions, Strings, Vectors, Lists, Matrices, Arrays, Factors.
4		3:45 PM to 5:00 PM	Data Frames, Packages, Data Reshaping

On day-2,Dr. Sunitha N R, Professor, Dept of CSE , SIT, Tumkur continued to explain R programming concepts with few sample programs. The students executed the Programs to demonstrate use of various R Programming constructs. They learnt syntax and structure of R-Programming. They have understand how modern R Programming is different from traditional programming and how it is very much useful in developing innovative projects.

Session Number	Date	Time	Topics
1	Day 2 (21-09-21)	9:30 AM to 11:00 AM	R Data Interfaces, Importing Data
2		11:15 AM to 1:00 PM	R Graphs, Statistics
3		2:00 PM to 3:30 PM	Machine Learning in R: Introduction
4		3:45 PM to 5:00 PM	Case studies R Vs Python: What's the difference ?, Opportunities



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INAUGURAL OF R-PROGRAMMING WORKSHOP



HONOURING GUEST SPEAKER DR SUNITHA N R

Media Report

Report on : A Two day Workshop on "R- Programming".

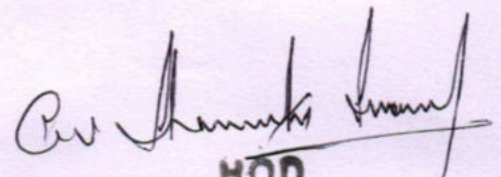
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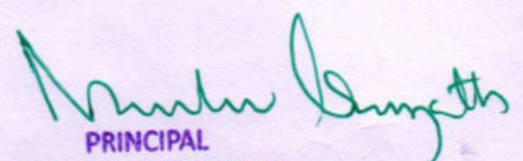
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The workshop was organized under CSI-SIET student chapter [Part of Computer Society of India ,Bangalore Chapter]. In the key note address Dr. Sunitha N R, Professor, Dept. of SIT, Tumakuru highlighted the significance of R – Programming to the students, mentioning how this workshop is a major entry point to the current world of programming. Dr. Narendra Viswanath, Principal, in his address described how India and China improving in technology. He motivated the students to effectively learn the modern languages for programming purpose by remembering initial days of Java language introduced in 1996.

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Invocation by : Mr. Pramodh R, Sahana Y Gowda and Bindhushri 4th sem CSE students
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COMPETITIVE EXAMINATIONS



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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Date: 28/12/2021

CIRCULAR

It is hereby informed to all the students of III, V & VII semesters of CSE & ISE, department activity "Technical Test" will be conducted on 30/12/2021 from 2.30PM to 4.15PM in their respective classes.

III Sem- C Language Test

V Sem A & B- C & C++ Test

VII Sem- Mock Aptitude Test

Following staffs are requested to conduct the department activity as per schedule given below.

SEM	STAFF NAME	SIGNATURE
3 rd	Dr. Charan K V	
5 th A	Mr. Basavesha D	
5 th B	Mr. Renukaradhya.P.C	
7 th	Mr. Suthan R	

[Mr. Chethan M S]

Departmental Activity Coordinator

[Prof. C.V. Shanmukaswamy]
HOD, CSE

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[Mr. Chethan M S]

Departmental Activity Coordinator

[Prof. C.V. Shanmukaswamy]
HOD, CSE

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Mock Aptitude Test Paper-1

Instructions: 1) Answer all 25 Questions

Durations:75 min

2) Answer in Answer Sheet Only

3) Use rough sheets for working

4) Write your USN, Name, Branch, and Semester in Answer Sheet

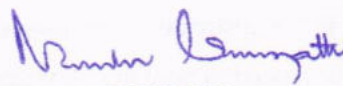
5) Each question carries one Mark.

- 1) A shopkeeper marks the price of his goods 12% higher than the original price. After that he allows a discount of 12%. What is his profit or loss?
- 2) In an examination, 50% students failed in English and 40% in Maths and 15% students failed in both subjects. If 200 students passed in both the subjects, find the number of students appeared in the exam.
- 3) In an election between A and B, A wins by a margin of 240 votes. If A gets 60% of the total votes, how many total votes are there?
- 4) The population of shrirampur was 1, 00,000 three years ago. If it increased by 2%,3% and 5% respectively in the last three years, then the present population of the town is?
- 5) It takes 4 hours for a 300km journey, if 60kms is done by train and the rest by car. It takes 10 minutes more, if 100kms is done by train and rest by car. The ratio of the speed of the train to that of the car is?
- 6) In 1 hour a boat goes 10km along the stream and 4 km against the stream. What is the speed of the boat in still water?
- 7) A boat goes 14km upstream in 56 minutes. The speed of stream is 2km/hr. The speed of stream is 2km/hr. Find the speed of boat in still water.
- 8) A man takes twice as long to row a distance against the stream as to row the same distance in favor of the stream. The ratio of the speed of the boat(in still water) and the stream is:
- 9) A boatman starts from point A at 11:00 am and travels downstream to point B, stays there for an hour and returns to point A at 4:00pm. If the speed of the boat and stream are 12kmph and 3kmph respectively, find the distance between A and B.
- 10) A train running at 25 km/hr takes 18 seconds to pass a platform. Next, it takes 12 seconds to pass a man walking at 5 km/hr in the opposite direction. Find the length of platform.
- 11) What is the value of x and y from a number $43x55y$ if whole number is divisible by 36?
- 12) What is the value of x and y from a number $23x45y$ if the whole number is divisible by 90?
- 13) How many 6 digits number are there which is divisible by 11?
- 14) What sum will produce Rs. 5000 interest in $5\frac{1}{4}$ years at $3\frac{1}{2}$ % simple interest?

Principal Signature

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- 15) A person deposits Rs. 4000 in a bank at 3% p.a, Rs. 8000 at 7% p.a and 12000 at 15% p.a. Find the rate of interest for whole sum.
- 16) The rate of interest for the first year is 3% per annum and for the next 2 years is 5% per annum, for next 4 years is 9% per annum, and for the period beyond 7 years 15% p.a. If a man gets rs. 15000 as simple interest for 8 years, how much money did he deposit?.
- 17) The compound interest on any sum at the rate of 5% for 2 years is Rs. 512.50. Find the sum
- 18) Rs 125000 is borrowed at CI at the rate of 2% for the 1st year, 3% for the 2nd year and 4% for the 3rd year. Find the amount to be paid after 3 years.
- 19) A sum of money placed at CI thrice itself in 4 years. In how many years will it amount to 27 times itself?
- 20) Rs. 15000 is borrowed at CI at the rate of 7% per annum. What is the ratio among the times taken by these cars to travel the same distance?
- 21) Divide Rs. 625 among a,b,c,d in the ratio 1:4:5:6:9.
- 22) The speed of three cars are in the ratio 2: 3 : 4. What is the ratio among the times taken by these cars to travel the same distance?
- 23) If $A:B=5:7$ and $B:C=6:11$ then find $A:B:C$.
- 24) If 10% of $X=20\%$ of Y then $X:Y$ is equal to?
- 25) Salaries of sheetal and seema are in the ratio 3:4. If the salary of each increased by Rs. 5000, the new ratio becomes 35:45, What is sheetal's present salary?


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Mock Test Paper-1 C language

- Instructions: 1) Answer all 24 Questions
 2) Answer in Answer Sheet Only
 3) Use rough sheets for working
 4) Write your USN, Name, Branch, and Semester in Answer Sheet
 5) Each question carries one Mark.

Durations:60 min

- 1) Which of the following is not a valid C variable name?
 a) int number;
 b) float rate;
 c) int variable_count;
 d) int \$main;

- b) Rectangular Array
 c) Cuboidal Array
 d) Multidimensional Array

- 2) Which of the following is true for variable names in C?
 a) They can contain alphanumeric characters as well as special characters
 b) It is not an error to declare a variable to be one of the keywords(like goto, static)
 c) Variable names cannot start with a digit
 d) Variable can be of any length

- 7) What is the sizeof(char) in a 32-bit C compiler?
 a) 1 bit
 b) 2 bits
 c) 1 Byte
 d) 2 Bytes

- 3) Which of the following declaration is not supported by C language?
 a) String str;
 b) char *str;
 c) float str = 3e2;
 d) Both String str; & float str = 3e2;

- 8) scanf() is a predefined function in _____ header file.
 a) stdlib. h
 b) ctype. h
 c) stdio. h
 d) stdarg. H

- 4) What is #include <stdio.h>?
 a) Preprocessor directive
 b) Inclusion directive
 c) File inclusion directive
 d) None of the mentioned

- 9) What will be the output of the following C code?

```
#include <stdio.h>
int main()
{
  int y = 10000;
  int y = 34;
  printf("Hello World! %d\n", y);
  return 0;
}
```

- a) Compile time error
 b) Hello World! 34
 c) Hello World! 1000
 d) Hello World! followed by a junk value

- 5) How many number of pointer (*) does C have against a pointer variable declaration?
 a) 7
 b) 127
 c) 255
 d) No limits

- 10) What will happen if the following C code is executed?

```
#include <stdio.h>
int main()
{
  int main = 3;
  printf("%d", main);
}
```

- 6) Which of the following is not possible statically in C language?
 a) Jagged Array

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```

return 0;
}

```

- a) It will cause a compile-time error
- b) It will cause a run-time error
- c) It will run without any error and prints 3
- d) It will experience infinite looping

11) What will be the output of the following C code?

```

#include <stdio.h>
int main()
{
    signed char chr;
    chr = 128;
    printf("%d\n", chr);
    return 0;
}

```

- a) 128
- b) -128
- c) Depends on the compiler
- d) None of the mentioned

12) What will be the output of the following C code on a 64 bit machine?

```

#include <stdio.h>
union Sti
{
    int nu;
    char m;
};
int main()
{
    union Sti s;
    printf("%d", sizeof(s));
    return 0;
}

```

- a) 8
- b) 5
- c) 9
- d) 4

13) What will be the output of the following C function?

```

#include <stdio.h>
enum birds {SPARROW, PEACOCK, PARROT};
enum animals {TIGER = 8, LION, RABBIT, ZEBRA};
int main()
{
    enum birds m = TIGER;
    int k;
    k = m;
    printf("%d\n", k);
}

```

```

return 0;
}

```

- a) 0
- b) Compile time error
- c) 1
- d) 8

14) What will be the final value of x in the following C code?

```

#include <stdio.h>
void main()
{
    int x = 5 * 9 / 3 + 9;
}

```

- a) 3.75
- b) Depends on compiler
- c) 24
- d) 3

15) What will be the output of the following C code? (Initial values: x= 7, y = 8)

```

#include <stdio.h>
void main()
{
    float x;
    int y;
    printf("enter two numbers \n", x);
    scanf("%f %f", &x, &y);
    printf("%f, %d", x, y);
}

```

- a) 7.000000, 7
- b) Run time error
- c) 7.000000, junk
- d) Varies

16) What will be the output of the following C code considering the size of a short int is 2, char is 1 and int is 4 bytes?

```

#include <stdio.h>
int main()
{
    short int i = 20;
    char c = 97;
    printf("%d, %d, %d\n", sizeof(i), sizeof(c), sizeof(c + i));
    return 0;
}

```

- a) 2, 1, 2
- b) 2, 1, 1
- c) 2, 1, 4
- d) 2, 2, 8

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17) What will be the output of the following C function?

```
#include <stdio.h>
void reverse(int i);
int main()
{
    reverse(1);
}
void reverse(int i)
{
    if (i > 5)
        return ;
    printf("%d ", i);
    return reverse((i++, i));
}
```

- a) 1 2 3 4 5
- b) Segmentation fault
- c) Compilation error
- d) Undefined behavior

18) How many times i value is checked in the following C program?

```
#include <stdio.h>
int main()
{
    int i = 0;
    while (i < 3)
        i++;
    printf("In while loop\n");
}
```

19) Which part of the program address space is p stored in the following C code?

```
#include <stdio.h>
int *p;
int main()
{
    int i = 0;
    p = &i;
    return 0;
}
```

- a) Code/text segment
- b) Data segment
- c) Bss segment
- d) Stack

20) What is the output of the following program?

```
#include <stdio.h>
main()
{
    int a[3] = {2, 1};
    printf("%d", a[a[0]]);
}
```

- a) 0
- b) 1
- c) 2
- d) Compile error

21) What will be the output of the following C code?

```
#include <stdio.h>
int main()
{
    enum {ORANGE = 5, MANGO, BANANA = 4, PEACH};
    printf("PEACH = %d\n", PEACH);
}
```

- a) PEACH = 3
- b) PEACH = 4
- c) PEACH = 5
- d) PEACH = 6

22) Local variables are stored in an area called

- a) Heap
- b) Permanent storage area
- c) Free memory
- d) Stack

23) What will be the output of the following C code?

```
#include <stdio.h>
void main()
{
    int a[2][3] = {1, 2, 3, 4, 5};
    int i = 0, j = 0;
    for (i = 0; i < 2; i++)
        for (j = 0; j < 3; j++)
            printf("%d", a[i][j]);
}
```

- a) 1 2 3 4 5 0
- b) 1 2 3 4 5 junk
- c) 1 2 3 4 5 5
- d) Run time error

24) What will be returned in the following C code?

```
size_t strlen(const char *s)
const char *sc;
for(sc = s; *sc != '\0'; ++sc)
return(sc - s);
```

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Answer Sheet

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Question Number	Answer	Question Number	Answer
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Mock Test Paper-1 C ++

Instructions: 1) Answer all 24 Questions

Durations:50 min

2) Answer in Answer Sheet Only

3) Use rough sheets for working

4) Write your USN, Name, Branch, and Semester in Answer Sheet

5) Each question carries one Mark.

1) Which of the following is the correct syntax of including a user defined header files in C++?

- a) #include [userdefined]
- b) #include "userdefined"
- c) #include <userdefined.h>
- d) #include <userdefined>

2) Which of the following is a correct identifier in C++?

- a) VAR_1234
- b) \$var_name
- c) 7VARNAME
- d) 7var_name

3) Which of the following is not a type of Constructor in C++?

- a) Default constructor
- b) Parameterized constructor
- c) Copy constructor
- d) Friend constructor

4) What will be the output of the following C++ code?

```
#include <iostream>
#include <string>
using namespace std;
int main(int argc, char const *argv[])
{
    char s1[6] = "Hello";
    char s2[6] = "World";
    char s3[12] = s1 + " " + s2;
    cout<<s3;
    return 0;
}
```

- a) Hello
- b) World
- c) Error
- d) Hello World

5) What happens if the following program is executed in C and C++?

```
#include <stdio.h>
int main(void)
{
    int new = 5;
    printf("%d", new);
}
```

- a) Error in C and successful execution in C++
- b) Error in both C and C++
- c) Error in C++ and successful execution in C
- d) A successful run in both C and C++

6) What happens if the following program is executed in C and C++?

```
#include <stdio.h>
void func(void)
{
    printf("Hello");
}
void main()
{
    func();
    func(2);
}
```

- a) Outputs Hello twice in both C and C++
- b) Error in C and successful execution in C++
- c) Error in C++ and successful execution in C
- d) Error in both C and C++

7) By default, all the files in C++ are opened in _____ mode.

- a) Binary
- b) VTC
- c) Text
- d) ISCII

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8) What is the value of p in the following C++ code snippet?

```
#include <iostream>
using namespace std;
int main()
{
    int p;
    bool a = true;
    bool b = false;
    int x = 10;
    int y = 5;
    p = ((x | y) + (a + b));
    cout << p;
    return 0;
}
```

- a) 12
- b) 0
- c) 2
- d) 16

9) Which of the following correctly declares an array in C++?

- a) array{10};
- b) array array[10];
- c) int array;
- d) int array[10];

10) What will be the output of the following C++ code?

```
#include<iostream>
using namespace std;
int main ()
{
    int cin;
    cin >> cin;
    cout << "cin: " << cin;
    return 0;
}
```

- a) Segmentation fault
- b) Nothing is printed
- c) Error
- d) cin: garbage value

11) Which is more effective while calling the C++ functions?

- a) call by object
- b) call by pointer
- c) call by value
- d) call by reference

12) What will be the output of the following C++ program?

```
#include <iostream>
```

```
#include <string>
#include <cstring>
using namespace std;
int main(int argc, char const *argv[])
{
    const char *a = "Hello\0World";
    cout<<a;
    return 0;
}
```

- a) Hello
- b) World
- c) Error
- d) Hello World

13) What will be the output of the following C++ code?

```
#include <iostream>
using namespace std;
int main()
{
    char c = 74;
    cout << c;
    return 0;
}
```

- a) I
- b) J
- c) A
- d) N

14) What will be the output of the following C++ program?

```
#include <iomanip>
#include <iostream>
using namespace std;
int main()
{
    cout << setprecision(17);
    double d = 0.1;
    cout << d << endl;
    return 0;
}
```

- a) compile time error
- b) 0.100001
- c) 0.11
- d) 0.100000000000000001

15) Which keyword is used to define the macros in c++?

- a) #macro
- b) #define
- c) macro
- d) define

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16) The C++ code which causes abnormal termination/behaviour of a program should be written under _____ block.

- a) catch
- b) throw
- c) try
- d) finally

17) What will be the output of the following C++ code?

```
#include <iostream>
using namespace std;
int main()
{
    int a = 5;
    float b;
    cout << sizeof(++a + b);
    cout << a;
    return 0;
}
```

- a) 2 5
- b) 4 5
- c) 4 6
- d) 2 6

18) What will be the output of the following C++ program?

```
#include<iostream>
using namespace std;
int main()
{
    int a = 5;
    auto check = [=]()
    {
        a = 10;
    };
    check();
    cout<<"Value of a: "<<a<<endl;
    return 0;
}
```

- a) Segmentation fault
- b) Value of a: 5
- c) Value of a: 10
- d) Error

19) Which of the following constructors are provided by the C++ compiler if not defined in a class?

- a) Copy constructor
- b) Default constructor
- c) Assignment constructor
- d) All of the mentioned

20) What will be the output of the following C++ code snippet?

```
#include <iostream>
using namespace std;
int operate (int a, int b)
{
    return (a * b);
}
float operate (float a, float b)
{
    return (a / b);
}
int main()
{
    int x = 5, y = 2;
    float n = 5.0, m = 2.0;
    cout << operate(x, y) <<"\t";
    cout << operate (n, m);
    return 0;
}
```

- a) 10.0 5
- b) 10 2.5
- c) 10.0 5.0
- d) 5.0 2.5

21) What will be the output of the following C++ code?

```
#include <iostream>
using namespace std;
int main ()
{
    int a, b, c;
    a = 2;
    b = 7;
    c = (a > b) ? a : b;
    cout << c;
    return 0;
}
```

- a) 12
- b) 14
- c) 6
- d) 7

22) What is abstract class in C++?

- a) Any Class in C++ is an abstract class
- b) Class from which any class is derived
- c) Class specifically used as a base class with atleast one virtual functions
- d) Class specifically used as a base class with atleast one pure virtual functions

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Answer Sheet

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