National Education Society (R.)

J N N College of Engineering, Shivamogga

(Approved by AICTE, New Delhi, Certified by UGC 2f & 12B, Accredited by NAAC – 'B',
UG Programs: CE, ME, EEE, ECE, CSE, ISE, TCE accredited by NBA: 1.7.2019 to 30.6.2022,
Recognized by Govt. of Karnataka and Affiliated to VTU, Belagavi)

Department of Information Science and Engineering

In association with

Institute of Engineers(IE) and Insight fourm

Department conducted two events under IE student chapter under department fourm Insight.

1. Quiz, a Inter department Competition on 07-6-2022. 30 teams have participated the event. Quiz has two parts, part A consists of 25 questions on general knowledge and Part B consists of 15 questions on C Programming knowledge. Duration is one hour.

2. Coding competition – It is conducted for the department students only on 15-06-2022. Two problems are given. Students have to write C/C++ code. Output is verified with predefined input. Duration is one hour.

For both the events, winner will get Certificate and a cash prize of Rs.3000/-, Rs.2000/- and Rs.1000/- was awarded for 1st, 2nd and 3rd place.

IE Competition 2021-22 Winners

Quiz: Inter department - 30 teams

1st Place	2nd Place	3rd Place
Gokul Krishna Raghavendra G 6th ECE Dept	Shashank GS Siddarth Muchadi 8th ECE Dept	Shree Harsha M Rohan D 4th B, ISE Dept
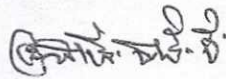
Coding Competition - 13 teams

1st Place	2nd Place	3rd Place
Sanketh Kashyap K R Rakshith K M 4th B ISE	Adithya Narayan Nideep G P 6th A, ISE	Arjun V Ashish A Shetty 6th A, ISE
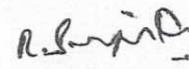
Our student coordinators and Volunteers

QUIZ	Coding Competition	Hackathon Techzone	Paper Presentation TechZone
Coordinators: Sujana S Shetty Amulya H S **Volunteers:** Jeevan K P Sameera Nadig A V Nithyashree H N Likith M Meghana M Abhilash K G Hemanthakumar J N Pramod R Nadig	**Coordinators:** Abdul Hameed Rayan **Volunteers:** Harshith G Anirudh V Shastry Sheethal R Disha Jain Bhumika K R	**Coordinators:** Sujana S Shetty Anubhab **Volunteers:** Jeevan K P Nithyashree H N Pramod R Nadig Hemanthakumar J N Amith Krishna L Abhiram Bharadwaj Devesh Bhaskar Aishwarya G S Archana S R Anupa Kini R	**Coordinators:** Amulya HS Divya M (CSE) Chaitra S (CSE) M R Vaishnavi (CSE)

Our students coordinated 2 events in TechZone 2022 also.

Pradeep H K
Faculty Coordinator
PRADEEP H K
Associate Professor
Department of I.S. & E
J N N College of Engineering
SHIVAMOGGA-577 204.

HOD, ISE 21/6/22

Professor and Head
Dept. of Information Science & Eng.
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Department of Information Science and Engineering
QUIZ COMPETITION 2021-22

Submitted time:

NAME	
USN	
BRANCH	
SEMESTER	
Phone. No	

PART-A

1. Entomology is the science that studies

A. Behaviour of human beings

B. Insects

C. The origin and history of technical and scientific terms

D. The formation of rocks

2. Areas of which of the following current states did not come under control of Vijayanagar emperor Krishnadeva Raya?

A. Kerala

B. Tamil Nadu

C. Odisha

D. Maharashtra

3. Which one of the following was the first fort constructed by the British in India?

A. Fort William

B. Fort St. George

C. Fort St. David

D. Fort St. Angelo

4. Which country below is not one of the members of the UN security council (Jan 2003)?

A. Germany

B. France

C. China

D. USA

1

5. Ball pen function on which one of the following principal?

A. Boyle's law

B. Gravitational force

C. Surface tension

D. Viscosity

6. The currency notes are printed in

A. New Delhi

B. Nasik

C. Nagpur

D. Bombay

7. Which of the following countries is not a part of Melanesia region in the Pacific Ocean?

A. Vanuatu

B. Solomon Islands

C. Fiji

D. Kiribati

8. Which country has recently joined Euro Zone as the 18th member?

A. Latvia

B. Lithuania

C. Estonia

D. None of the above

9. Grand Central Terminal, Park Avenue, New York is the world's.

A. highest railway station

B. longest railway station

C. largest railway station

D. None of the above

10. ' Global 500 ' awards are given for the outstanding achievement in which of the following fields

A. Elimination of illiteracy

B. Protection of environment

C. campaign against drugs

D. Population Control

11. Who was the Prime Minister of India when the 42nd Amendment Bill bringing in the changes in the Constitution was passed?

A. Lal Bahadur Shastri

B. Indira Gandhi

C. V.P.Singh

D. Rajiv Gandhi

12. "Macintosh" an Operating System is a product of?

A. Microsoft

B. Apple

C. Intel

D. Google

13. Symantec is the maker of which among the following popular antivirus software?

A. Norton

B. BitDefender

C. Avast

D. McAfee VirusScan

14. UNIVAC is

A. Universal Automatic Computer

B. Universal Array Computer

C. Unique Automatic Computer

D. Unvalued Automatic Computer

15. A storage area used to store data to a compensate for the difference in speed at which the different units can handle data is

A. Memory

B. Buffer

C. Accumulator

D. Address

16. Who invented the internet?

A. Robert E. Kahn and Vint Cerf

B. Philip Diehl

C. William Sturgeon

D. Frederick Banting

17. Who build the first modern motorcar?

A. Daimler

B. Karl Benz

C. Henry Austin

D. Henry Ford

18. Which of the following is the outstanding contribution of Scientist Aneriko Fermi in Physics?

A. Nuclear Furnace or Bath

B. Laws of Motion

C. Discovery of Calculus

D. Parasite

19. Who among the following invented the Email?

A. Ralph H. Baer

B. Vint Cerf

C. Steve Jobs

D. Shiva Ayyadurai

20. India's first satellite Aryabhata was launched from

A. Soviet Union

B. America

C. India

D. Israel

21. The first high-level programming was ....

A. COBOL

B. FORTRAN

C. LISP

D. Pascal

22. Which was the 1st non Test playing country to beat India in an international match?

A. Canada

B. Sri Lanka

C. Zimbabwe

D. East Africa

23. Who was the 1st president of BCCI (Board of Control for Cricket in India)?

A. R.E. Grant Govan

B. Dr. Maharajkumar Sir Vijaya Ananda

C. Sikandar Hyat Khan

D. Anthony S. D'Mello

24. Total number of gold medal won by Indian Hockey Team in Olympics

A. 8

B. 12

C. 6

D. 9

25. When was the first Common Wealth Games held?

A. 1930

B. 1934

C. 1956

D. 1948

PART-B

1. 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;

2. A variable declared with ____ modifier can retain its value during function calls.

A. const

B. extern

C. volatile

D. static

3. What will be the output of following program?

```
#include <stdio.h>
int main()
{
   int* ptr;
   *ptr = 5;
   printf("%d", *ptr);
   return 0;
}
```

A. compilation error

B. Runtime error

C. 5

D. linker error

4. What is the Output Of this program?

```
#include <stdio.h>
int main()
{
    unsigned int a = 0xffff;
    unsigned int k = ~a;
    printf("%d %d\n", a, k);
    return 0;
}
```
A. 65535 -65536

B. -65535 65535

C. 65535 65535

D. -65535 -65535

5. What will be the output of the following?

```
#include <stdio.h>
int main(void)
{
    int a;
    int b = 1;
    int x[5] = { 1, 2, 3, 4, 5 };
    a = 5 * 4 + x[--b] - (9 / b);
    printf("%d", a);
    return 0;
}
```
A. 12

B. Abnormal Termination

C. 21

D. No Output

6. What will be the output of following program?

```
#include <stdio.h>
int main()
{
    int a = 5, *b, c;
    b = &a;
    printf("%d", a * *b * a + *b);
    return (0);
}
```
A. 130

B. 103

C. 100

D. 310

7. Compiler generates ___ file.

A. Executable code

B. Object code

C. Assembly code

D. None of the above.

8. In Decimal system you can convert the binary number 1011011111000101 very easily.

A. Yes

B. Hexadecimal system

C. Octal system

D. Both, Octal & Decimal

9. How much has Bitcoin's value grown since 2014?

A. Over 800%

B. 150%

C. 30%

D. 52%

10. Who invented Bitcoin?

A. group of hackers

B. Satoshi Nakamoto

C. The U.S. government

D. Michael Novogratz

11. Which is a type of Electrically-Erasable Programmable Read-Only Memory?

A. Flash

B. Flange

C. Fury

D. FRAM

12. Which motor is NOT suitable for use as a DC machine?

A. Permanent magnet motor

B. Series motor

C. Squirrel cage motor

D. Synchronous motor

13. **What do the following declaration signify? void *cmp();**

A. cmp is a function that return a void pointer

B. cmp is a void type pointer variable

C. cmp is a pointer to an void type

D. cmp function returns nothing

14. **What do the following declaration signify? char *arr[10];**

A. arr is a pointer to array of characters

B. arr is a array of function pointer

C. arr is a array of 10 character pointers

D. arr is a array of characters

15. **Which of the following is the correct order if calling functions in the below code? a = f1(23, 14) * f2(12/4) + f3();**

A. Order may vary from compiler to compiler

B. f3, f2, f1

C. f1, f2, f3

D. None of above

All the best

Department of Information Science
With
Institute of Engineers(IE) and Insight Form

Coding competition

SOUNDEX() returns a character string containing the phonetic representation of char. This function lets you compare words that are spelled differently, but sound alike in English.

Algorithm is as follows:

1. The code is 4 characters wide
2. Retain the first letter of the string and remove all other occurrences of the following letters: a, e, h, i, o, u, w, y.

Assign numbers to the remaining letters (after the first) as follows:
b, f, p, v = 1
c, g, j, k, q, s, x, z = 2
d, t = 3
l = 4
m, n = 5
r = 6

3. If two or more letters with the same number were adjacent in the original name (before step 1), or adjacent except for any intervening h and w, then omit all but the first.

4. Return the first four bytes padded with 0.(c language string)

Examples:

Input	Output
Pradeep	P631
Pradip	P631
Paradip	P631
Paradeep	P631
AMRUTHA	A563
AMRUTA	A563
AMaRUTHA	A563
AMRUTH	A563

2. Program to encode given mobile number as Nambiar Number

Ex:1. i/p: 9860857152
       o/p: 3687

   2. i/p: 9900114279
       o/p: 1824216

   3. i/p: 9880127431
       o/p: 262141

Algorithm:
- If the given mobile number is 9860857152
- First digit 9 is odd.
- First pass results in 9+8+6+0+8+5=36
- Second pass results in 7+1=8
- Third pass results in 5+2=7
- Note that the third pass stops at 7 (even though we do not meet a change of state) because we have reached the end of the mobile number
- For the mobile number 9860857152. the resultant number (Nambiar Number) will be the concatenation of the results of the 3 passes = [36][8][7] = **3687**