**M.A.M COLLEGE OF ENGINEERING AND TECHNOLOGY, TRICHY**

**DEPARTMENT OF CSE/IT**

**EPIPHAMY 2020**

**CODE DEBUGGING EVENT**

**MAXIMUM TIME 1 HOUR**

**ROUND 1(28.4.2020)**

**1. Find Error/Output in following code:**

struct

{

int si;

double d;

float cp;

} s;

void main ()

{

printf ("%d, %d, %d",  sizeof (s.si), sizeof (s.d), sizeof (s.cp));

}

* 1. 6, 10, 8
  2. 4, 8, 4
  3. 2, 4, 4
  4. 2, 8, 8

**2. What will be the output for the following program?**

#include <stdio.h>

void main()

{

printf("value is = %d",(10++));

}

1. 10
2. 11
3. 0
4. Error

**3. What will be the output for the following program?**

#include <stdio.h>

void main()

{

unsigned short var='B';

var+=2;

var++;

printf("var : %c , %d ", var,var);

}

1. [var : E, 69](javascript:void(0);)

2. [var : E, 68](javascript:void(0);)

3. [var : D, 68](javascript:void(0);)

4. [var : D, 69](javascript:void(0);)

**4. What will be the output of the program?**

#include <stdio.h>

int main()

{

     char    \*str="IncludeHelp";

     printf("%c\n",\*&\*str);

     return 0;

}

1. [Error](javascript:void(0);)
2. [IncludeHelp](javascript:void(0);)
3. [I](javascript:void(0);)
4. [\*I](javascript:void(0);)

**5. Find Error/Output in following code:**

int main()

{

int x = 24, y = 39, z = 45;

z = x + y;

y = z - y;

x = z - y;

printf ("n%d %d %d", x, y, z);

}

* 1. 24 39 63
  2. 39 24 63
  3. 24 39 45
  4. 39 24 45

**6. If the address of the pointer is Find Error/Output in following code:**

#include <stdio.h>

int main()

{

    void \*ptr;

    ++ptr;

    printf("%u",ptr);

    return 0;

}

1. 2004
2. 2001
3. 2000
4. Error

**7. What will be the output of the following?**

#include <stdio.h>

int main()

{

     int a=10,b=2;

     int \*pa=&a,\*pb=&b;

     printf("value = %d", \*pa/\*pb);

     return 0;

}

1. 5
2. 5.0
3. Error
4. None of these

**8. Find Error/Output in following code:**

int main()

{

int x=1;

while(x = 0)

printf("hello");

}

* 1. hello
  2. No output
  3. Infinite time hello display
  4. Error in code

**9. Find Error/Output in following code:**

int main()

{

int x = 0, y = 0;

 if(x > 0)

if(y > 0)

printf("True");

else

printf("False");

}

* 1. No Output
  2. True
  3. False
  4. Error because of dangling else problem

**10. Find Error/Output in following code:**

void main()

{

 int a = 1, b=2, c=3;

char d = 0;

if(a,b,c,d)

{

Printf(“EXAM”);

}

}

* 1. No Output and No Error
  2. EXAM
  3. Run time error
  4. Compile time error

**11. Find the Output for the following code:**

int main()

{

int x[10]={0,1,2,3,4,5,6,7,8,9};

int \*ptr1,\*ptr2;

ptr1=&x[0];

ptr2=&x[5];

printf("%p\n",(ptr1+ptr2));

return 0;

}

**12. Find Error/Output in following code:**

int main()

{

int a = 10, b = 25;

a = b++ + a++;

b = ++b + ++a;

printf("%d %d n", a, b);

**}**

* 1. 36 64
  2. 35 62
  3. 36 63
  4. 30 28

**13. Find Error/Output in following code:**

int main()

{

int x = 7538;

printf("%d %dn", x % 100, x / 10);

}

* 1. 38 753
  2. 75 538
  3. 538 38
  4. 0 753

**14. Which header file is required to run this program?**

#include <.....>

int main()

{

     cout<<"Hello World.";

     return 0;

}

1. [stdio.h](javascript:void(0);)
2. [conio.h](javascript:void(0);)
3. [iostream.h](javascript:void(0);)
4. [ostream.h](javascript:void(0);)

**15. Which is the correct statement to print the value of age?**

#include <iostream.h>

int main()

{ s

     int age=19;

     .....

     return 0;

}

1. [cout << "Age: %d",age;](javascript:void(0);)
2. [cout << "Age: %d" << age;](javascript:void(0);)
3. [cout << "Age: " + age;](javascript:void(0);)
4. [cout << "Age: " << age;](javascript:void(0);)

**16. What will be the output of following program?**

#include <iostream.h>

int a=10;

int main()

{

     int a=20;

     cout<<::a;

     return 0;

}

1. [10](javascript:void(0);)
2. [20](javascript:void(0);)
3. [::10](javascript:void(0);)
4. [::20](javascript:void(0);)
5. **What will be the output of the following program?**

#include <iostream>

  using namespace std;

  int main()

{

    cout <<P"includehelp.com";

      return 0;

}

1. Compile time error
2. Run time error
3. Includehelp.com
4. None of these

**18. Which variable(s) is/are accessible in main() function?**

class sample

{

     private:

         int x;

     protected:

         int y;

     public:

         int z;

}

1. [x](javascript:void(0);)
2. [y](javascript:void(0);)
3. [z](javascript:void(0);)
4. [y and z](javascript:void(0);)

**19. Write statement to print value of var ?**

int var=100;

class sample

{

private:

     void showVal(void)

     {

         ...

     }

}

1. [cout<<var;](javascript:void(0);)
2. [cout<<::var;](javascript:void(0);)
3. [Cannot access var inside class member function.](javascript:void(0);)

4. [Both 1 and 2](javascript:void(0);)

**20. What will be the output of the following program?**

#include <iostream>

using namespace std;

//Empty class

class test

{

};

  int main()

{

    test testObj;

    cout<<"size ="<<sizeof(testObj);

    return 0;

}

1. Error

2. Size= Garbage

3. Size=1

**21. Which is the correct answer regarding '\n' and endl?**

1. [Both are same.](javascript:void(0);)
2. [**'\n'** and **endl** both are used to print new line but **endl** flushes the buffer after printing new line.](javascript:void(0);)
3. [**'\n'** and **endl** both are used to print new line but **'\n'** flushes the buffer after printing new line.](javascript:void(0);)
4. [**'\n'** used in C programming while **endl** used in C++ programming.](javascript:void(0);)

**22. Which header file is required to use setw( ) function?**

1. conio.h

2.iostream.h

3. stdlib.h

4. iomanip.h

**23. Where a protected member can be accessed?**

1. Within the same class

2. Outside the class

3. Within the derived class

4. Both 1 and 3

**24**. **Find Error/Output in following code:**

main ( ) {

 int i = 2, \*j;

 j = &i;

printf("%d", i\*\*j\*i+\*j);

}

* 1. Syntax error due to Invalid expression in printf
  2. Print junk value
  3. 16
  4. 10

**25.** **Find Error/Output in following code:**

int main ( ) {

int m = -10, n = 20;

n = (m < 0) ? 0 : 1;

printf("%d %d", m, n);

}

* 1. 10 0
  2. 10 20
  3. 20 -10
  4. 0 1