

C PROGRAMMING CSE-101

MTE SAMPLE PAPER

SET-1

UNIT-1

1. Which of the following is not a valid variable name declaration?

- a) int __a3;
- b) int __3a;
- c) int __A3;
- d) None of the mentioned

ANS:D

2. 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

ANS:B

3. Variable name resolution (number of significant characters for the uniqueness of variable) depends on

- a) Compiler and linker implementations
- b) Assemblers and loaders implementations
- c) C language
- d) None of the mentioned

ANS:A

4. What will be the output of the following C code?

```
#include <stdio.h>
int main()
{
    float x = 'a';
    printf("%f", x);
    return 0;
}
```

- a) a
- b) run time error
- c) a.0000000
- d) 97.000000

ANS:D

5. Which of the following statement is false?

- a) Constant variables need not be defined as they are declared and can be defined later
- b) Global constant variables are initialized to zero

- c) const keyword is used to define constant values
- d) You cannot reassign a value to a constant variable

ANS:A

6. Which of the following statement is false?

- a) A variable defined once can be defined again with different scope
- b) A single variable cannot be defined with two different types in the same scope
- c) A variable must be declared and defined at the same time
- d) A variable refers to a location in memory

ANS:C

7. What will be the output of the following C code?

```
#include <stdio.h>
```

```
void main()
```

```
{
```

```
    int a = 3;
```

```
    int b = ++a + a++ + --a;
```

```
    printf("Value of b is %d", b);
```

```
}
```

- a) Value of x is 12
- b) Value of x is 13
- c) Value of x is 10
- d) Undefined behaviour

ANS:D

8. Which among the following is NOT a logical or relational operator?

- a) !=

b) ==

c) ||

d) =

ANS:D

9.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

ANS:C

10.What will be the output of the following C code?

```
#include <stdio.h>
```

```
void main()
```

```
{
```

```
int k = 8;
```

```
int m = 7;
```

```
k < m ? k = k + 1 : m = m + 1;
```

```
printf("%d", k);
```

```
}
```

- a) Compile time error
- b) 9
- c) 8
- d) Run time error

ANS:A

UNIT-2

1. Which datatype can accept the switch statement?

- a) int
- b) char
- c) long
- d) all of the mentioned

ANS:D

2. What will be the output of the following C code?

```
#include <stdio.h>
int main()
{
    int x = 0;
    if (x == 1)
        if (x == 0)
            printf("inside if\n");
        else
            printf("inside else if\n");
    else
        printf("inside else\n");
}
```

- a) inside if
- b) inside else if
- c) inside else
- d) compile time error

ANS:C

3. What will be the output of the following C code?

```
#include <stdio.h>
```

```
int main(){  
    int a = 1, b = 1;  
    switch (a){  
        case a*b:  
            printf("yes ");  
        case a-b:  
            printf("no\n");  
            break;  
    } }
```

- a) yes
- b) no
- c) Compile time error
- d) yes no

ANS:C

4. What will be the output of the following C code?

```
#include <stdio.h>
```

```
int x;  
void main()  
{  
    if (x)  
        printf("hi");  
}
```

```
        else
            printf("how are u");
    }
```

- a) hi
- b) how are you
- c) compile time error
- d) error

ANS:B

5. What will be the output of the following C code?

```
#include <stdio.h>
int main(){
    short i;
    for (i = 1; i >= 0; i++)
        printf("%d\n", i);
}
```

- a) The control won't fall into the for loop
- b) Numbers will be displayed until the signed limit of short and throw a runtime error
- c) Numbers will be displayed until the signed limit of short and program will successfully terminate
- d) This program will get into an infinite loop and keep printing numbers with no errors

ANS:C

6. What will be the output of the following C code?

```
#include <stdio.h>
int main()
{
    for (int i = 0; i < 1; i++)
```

```
    printf("In for loop\n");  
}
```

- a) Compile time error
- b) In for loop
- c) Depends on the standard compiler implements
- d) Depends on the compiler

ANS:C

7. How many times i value is checked in the following C code?

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

- a) 2
- b) 3
- c) 4
- d) 1

ANS:B

8. What will be the output of the following C code?

```
#include <stdio.h>  
int main(){  
    int a = 0, i = 0, b;
```



```
for (i = 0; i < 5; i++){  
    a++;  
    if (i == 3)  
        break;  
}
```

- a) 1
- b) 2
- c) 3
- d) 4

ANS:D

9. What will be the output of the following C code?

```
#include <stdio.h>  
int main(){  
    printf("%d ", 1);  
    11:12:  
    printf("%d ", 2);  
    printf("%d\n", 3);  
}
```

- a) Compilation error
- b) 1 2 3
- c) 1 2
- d) 1 3

ANS:B

10. What will be the output of the following C code?

```
#include <stdio.h>  
int main(){  
    int i = 0;  
    do {
```

```

    i++;
    if (i == 2)
        continue;
    printf("In while loop ");
} while (i < 2);
printf("%d\n", i);
}

```

- a) In while loop 2
- b) In while loop in while loop 3
- c) In while loop 3
- d) Infinite loop

ANS:A

UNIT-3

1. What will be the output of the following C code?

```

#include <stdio.h>
void main()
{
    m();
    void m()
    {
        printf("hi");
    }
}

```

- a) hi
- b) Compile time error
- c) Nothing
- d) Varies

ANS:B

2. The value obtained in the function is given back to main by using _____ keyword.

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- a) return
- b) static
- c) new
- d) volatile

ANS:A

3. Which of the following is a correct format for declaration of function?

- a) return-type function-name(argument type);
- b) return-type function-name(argument type){}
- c) return-type (argument type)function-name;
- d) all of the mentioned

ANS:A

4. What will be the output of the following C code (without linking the source file in which ary1 is defined)?

```
#include <stdio.h>
```

```
int main()  
{  
    extern ary1[];  
    printf("scope rules\n");  
}
```

- a) scope rules
- b) Linking error due to undefined reference
- c) Compile time error because size of array is not provided
- d) Compile time error because datatype of array is not provided

ANS:A

5. register keyword mandates compiler to place it in machine register.

- a) True
- b) False
- c) Depends on the standard
- d) None of the mentioned

ANS:B

6. Which among the following is wrong for “register int a;”?

- a) Compiler generally ignores the request
- b) You cannot take the address of this variable
- c) Access time to a is critical
- d) None of the mentioned

ANS:D

7. What will be the output of the following C code?

```
#include <stdio.h>
void main()
{
    register int x = 0;
    if (x < 2)
    {
        x++;
        main();
    }
}
```

- a) Segmentation fault
- b) main is called twice
- c) main is called once
- d) main is called thrice

ANS:A

8. What will be the output of the following program?

```
#include< stdio.h>
void fun(){
fun();
Return 0;
}
void fun(){
auto int l = 1;
register char a = 'D';
static int p = 0;
printf("%d %d %ld", l, a, p);
}
```

- a) 1 D 0
- b) 1 0 0
- c) 0 D 1
- d) 1 68 0

ANS:D

9.What will be the output of the following C code?

```
#include<stdio.h>
main(){
    int n;
    n=f1(4);
    printf("%d",n);
}
f1(int x){
    int b;
    if(x==1)
        return 1;
    else
        b=x*f1(x-1);
    return b;
}
```

- a) 24
- b) 4
- c) 12
- d) 10

ANS:A

10. The data structure used to implement recursive function calls _____

- a) Array
- b) Linked list
- c) Binary tree
- d) Stack

ANS:D

