

- 09.** Describe any three (3) main types of errors available in a programming language.
- 10.** Write an algorithm to read **n** number of values in an array and display them in reverse order.
- 11.** Write a C program that will display odd numbers from 50 to 10.
- 12.** Develop a C program to display the days of the week by using switch case statement.
- 13.** Use sum () function to develop a simple python program that will add two numbers.
- 14.** Consider the following code snippet.
- ```
int i = 10;
int n = i++%5;
```
- a)** What are the values of i and n after the code is executed?
- b)** What are the final values of i and n if instead of using the postfix increment operator (i++), you use the prefix version (++i)?
- 15.** Compare for loop with while loop by using an example for each.
- 16.** Refer to table below and write an algorithm to print the grade obtained by a student.

| <b>Marks</b> | <b>Grades</b> |
|--------------|---------------|
| Above 75     | O             |
| 60-75        | A             |
| 50-60        | B             |
| 40-50        | C             |
| Less than 40 | D             |

- 17.** Analyze the expression provided in the first column and complete the second column of the table below.

Assume that a=5, b=10, c=15 and d=0.

| EXPRESSION              | TRUE OR FALSE |
|-------------------------|---------------|
| (a! = 7)                |               |
| ((c>=15)    (d>a))      |               |
| ((d/c < (a*b))          |               |
| (! ((a+d) >= (c-b+1) )) |               |
| ((c>b)&&(b<a))          |               |

18. a) Analyze the following program and provide its output.

```
#include<stdio.h>
int main()
{
int i;
int arr[5] = {1,5,9};
for (i = 0; i < 5; i++){
printf("%d ", arr[i]);
}
return 0;
}
```

b) Explain realloc and give its syntax.

19. With the help of examples, explain function overloading in C++

20. Write a Pseudocode program of binary search algorithms.

21. a) Develop a JavaScript program that will calculate volume of a box of length = 30, width = 50 and height=5

**(Hint: volume = length \* width \* height)**

b) Create a JavaScript object that will store and output product and price of a commodity.