

HINDU COLLEGE PG COURSES GUNTUR

(NAAC 'A' Grade Accreditation)

**Internal Quality Assurance Cell
(IQAC)**

AQAR 2022 – 23

ADD - ON COURSE ON

‘C Programming’



By

Department of MCA

07-02-2022 to 19-02-2022



HINDU COLLEGE PG COURSES

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DEPARTMENT OF MCA

Date : 07/02/22

Topic : Basics

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30	Y22MC13065	Y. Stella Prasanthi	Y. Stella
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32	Y22MC13064	Y. Lokitha	Y. Lokitha
33	Y22MC13022	K. Sita	K. Sita
34	Y22MC13043	P. Sindhu	P. Sindhu
35	Y22MC13025	K. Sireesha	K. Sireesha
36	Y22MC13002	B.V.N. Sri Pavani	B.V.N. Sri Pavani
37	Y22MC13008	P. Charishma	P. Charishma
38	Y22MC13023	K. Gayathri	K. Gayathri
39	Y22MC13061	V. Rajya Lakshmi	V. Rajya Lakshmi
40	Y22MC13048	P. Pujitha	P. Pujitha
41	Y22MC13047	P. Lakshmi Lavanya	P. Lakshmi Lavanya
42	Y22MC13004	Keerthna B	Keerthna B
43	Y22MC13007	Ch. Sathirmani	Ch. Sathirmani
44	Y22MC13010	Ch. Devi Sai Prasanna	Ch. Devi Sai Prasanna
45	Y22MC13029	K. Mohan Sreej	K. Mohan Sreej
46	Y22MC13030	K. Kalyan Gayathri	K. Kalyan Gayathri
47	Y22MC13038	M. Sreeja	M. Sreeja
48	Y22MC13037	M. Kavya	M. Kavya
49	Y22MC13046	P. Ramya	P. Ramya
50	Y22MC13034	M. Ramya	M. Ramya

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Multiple Choice Questions in 'C'

1. What is the range of values that can be stored by int datatype in C ?

- a) $-(2^{31})$ to $(2^{31}) - 1$
- b) -256 to 255
- c) $-(2^{63})$ to $(2^{63}) - 1$
- d) 0 to $(2^{31}) - 1$

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

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

```
int main() {
```

```
    int a = 3, b = 5;
```

```
    int t = a;
```

```
    a = b;
```

```
    b = t;
```

```
    printf("%d %d", a, b);
```

```
    return 0;
```

```
}
```

- a) 3 5
- b) 3 3
- c) 5 5
- d) 5 3

3. How is an array initialized in C language ?

- a) `int a[3] = {1, 2, 3};`
- b) `int a = {1, 2, 3};`
- c) `int a[] = new int[3];`
- d) `int a(3) = [1, 2, 3];`

4. What is the output of the following code snippet ?

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

```
int main() {
```

```
    int a[] = {1, 2, 3, 4};
```

```
    int sum = 0;
```

```
    for(int i = 0; i < 4; i++) {
```

```
        sum += a[i];
```

```
    }
```

```
    printf("%d", sum);  
    return 0;  
}
```

- a) 1
- b) 4
- c) 20
- d) 10

5. What is the output of the following code snippet ?

```
int main() {  
    int sum = 2 + 4 / 2 + 6 * 2;  
    printf("%d", sum);  
    return 0;  
}
```

- a) 2
- b) 15
- c) 16
- d) 18

6. How is the 3rd element in an array accessed based on pointer notation ?

- a) *a + 3
- b) *(a + 3)
- c) *(*a + 3)
- d) &(a + 3)

7. How are String represented in memory in C ?

- a) An array of characters.
- b) The object of some class.
- c) Same as other primitive data types.
- d) LinkedList of characters.

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

```
#include <stdio.h>  
void solve() {  
    int a[] = {1, 2, 3, 4, 5};  
    int sum = 0;  
    for(int i = 0; i < 5; i++) {  
        if(i % 2 == 0) {  
            sum += *(a + i);  
        }  
        else {  
            sum -= *(a + i);  
        }  
    }  
}
```

```

    }
    printf("%d", sum);
}
int main() {
    solve();
    return 0;
}

```

- a) 2
- b) 15
- c) Syntax Error
- d) 3

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

```

#include <stdio.h>
void solve() {
    int first = 10, second = 20;
    int third = first + second;
    {
        int third = second - first;
        printf("%d ", third);
    }
    printf("%d", third);
}
int main() {
    solve();
    return 0;
}

```

- a) 10 30
- b) 30 10
- c) 10 20
- d) 20 10

10. What is the disadvantage of arrays in C ?

- a) The amount of memory to be allocated should be known beforehand.
- b) Elements of an array can be accessed in constant time.
- c) Elements are stored in contiguous memory blocks.
- d) Multiple other data structures can be implemented using arrays.

PROGRAMMING WITH C :: Syllabus

Introductory Concepts : Types of Programming Languages, Introduction to C, Desirable Program Characteristics

Introduction to C Programming : The C Character Set, Writing First Program of C, Identifiers and Keywords, Data types, Constants, Variables and Arrays, Declarations, Expressions Statements, Symbolic Constants

Operators and Expressions : Arithmetic Operators, Unary Operators, Relational and Logical Operators, Assignment Operators, The Conditional Operator, Library Functions.

Data Input and Output : Preliminaries, Single Character Input - The Getchar Function, Single Character Output – The Puchar Function, Enter Input Data – The Scanf Function, More About the Scanf Function, Writing Output Data – The Printf Function, More About the Printf Function, The Gets and Puts Functions

Preparing and Running A Complete C Program : Planning a C Program, Writing a C Program, Error Diagnostics, Debugging Techniques

Control Statements : Preliminaries, Branching: The IF-ELSE Statement, Looping: The while Statement, More Looping: The do-while Statement, Still More Looping: The for Statement, Nested Control Structures, The Switch Statement, The break Statement, The continue Statement, The comma Statement, The goto Statement.

Program Structure : Storage Classes, Automatic Variables, External (Global) Variables, Static Variables.

Arrays : Defining an Array, Processing an Array, Passing Arrays to Functions, Multidimensional Arrays, Arrays and Strings

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ASSESSMENT

We have assessed the students by conducting the exam in the corresponding subject in the form of Multiple Choice Questions.