

B.C.A. Semester – I
BCA-105 : Fundamentals of Programming Language ‘C’

Teaching Scheme (per week)		Teaching Scheme (per semester)		Examination Scheme					
				INT		EXT		TOTAL	
Th. (hours)	Pr. (hours)	Total Hours	Credit	Th. (marks)	Pr. (marks)	Th. (marks)	Pr. (marks)	Th. (marks)	Pr. (marks)
--	4	40	4	--	30	--	70	--	100

Practical based on Fundamentals of Programming Language ‘C’

University Examination Duration: 3 Hours (Per Batch)

(Practical List)

1. Write a C program to display "hello computer" on the screen.
2. Write a C program to print roll no, name and address.
3. Write a C program to find the area of circle using the formula $\text{Area} = \pi * r * r$.
4. Write a C program to find the area of rectangle, cube and triangle. (Formula are:
Rectangle = $l * b * h$, triangle = $(I * b) * 0.5$, cube = $L * L * L$)
5. Write a C program to find the area and volume of sphere. Formulas are $\text{Area} = 4 * \pi * R * R$
 $\text{Volume} = 4/3 * \pi * R * R * R$.
6. Write a C program to evaluate simple interest $I = P * R * N / 100$.
7. Write a C program to enter a distance into K.M and convert it in to meter, feet, inches and Centimeter
8. Write a C program to interchange two numbers.
9. Write a C program to convert Fahrenheit into centigrade
Formula: $C = (F - 32) / 1.8$.
10. Write a C program for summation, subtraction, multiplication, division of two number using Arithmetic operator
11. Write a C program to enter days and convert into years, month and reminder days.
12. Write a C program to find out the largest value from given three numbers using conditional Operator
13. Write a C program to find the maximum number from given three numbers.
14. Write a C program to find that the enter number is Negative, or Positive or Zero.
15. Write a C program to Checked whether entered char is capital, small, digit or any special Character
16. Write a C program to read number 1 to 7 and print relatively day Sunday to Saturday.
17. Write a C program to find out the max. and min. number from given 10 numbers.
18. Write a C program to find the sum of digit of accepted number.
19. Write a C program to find the sum of first 100 odd numbers. And even numbers.
20. Write a C program to display first 25 Fibonacci nos.
21. Write a C program to check the accepted number is prime number or not.
22. Write a C program to display first' 100 prime numbers.
23. Write a C program to find factorial of accepted numbers.
24. Write a C program to print accepted no and its reverse number.
25. Write a C program to find whether the accepted number is palindrome or not.
26. Write a C program to convert decimal numbers into equivalent binary number.
27. Write a C program to convert decimal numbers into equivalent to octal number.

28. Write a C program to convert decimal numbers into equivalent hexadecimal number.
29. Write a C program to display first 5 Armstrong number.
30. Write a C program to arrange the accepted numbers in ascending order and descending order.
31. Write a C program to find whether the accepted string is palindrome or not.
32. Write a C program to convert given line into upper case or lower case.
33. Write a C program to count no of word, character, line and space from given text.
34. Write a C program to sort given string in ascending order.
35. Write a C program to prepare pay slip using following data.
 Da = 10% of basic, Hra = 7.50% of basic, Ma = 300,
 Pf = 12.50% of basic, Gross = basic + Da + Hra + Ma, Nt = Gross – Pf.
36. Write a C program to read marks and your program will display grade.

Marks	Grade
100 – 80	Dist
60 – 79	First
50 – 59	Second
35 – 49	Pass
0 – 34	Fail

37. Write a C program to find $1+1/2+1/3+1/4+....+1/n$.
38. Write a C program to display following output on the screen.

```
1
12
123
1234
```

39. Write a C program to display following output on the screen.

```
1
22
333
4444
```

40. Write a C program to display following output on the screen.

```
1
0 1
1 0 1
0 1 0 1
1 0 1 0 1
```

41. Write a C program to display following output on the screen.

```
1
2 2
3 3 3
4 4 4 4
5 5 5 5 5
```

42. Write a C program to display following output on the screen.

```
1
2 3
4 5 6
7 8 9 10
```

43. Write a C program to display following output on the screen

```
*
**
***
****
*****
```

44. Write a C program to display following output on the screen.

```
      *
     **
    ***
   ****
  *****
```

45. Write a C program to display following output on the screen.

```
      1
     2 3
    4 5 6
   7 8 9 10
  11 12 13 14 15
```

46. Write a C program to display following output on the screen

```
C
CP
CPR
CPRO
:
CPROGRAMMING
:
CPRO
CPR
CP
C
```

47. Write a C program to find maximum & minimum value from the given array.

48. Write a C program to find next minimum from the given array.

49. Write a c program to input N and find out the sum, average, max, min, total even no and total odd no. [with out use of array]

50. Write a c program to input N no and find out the sum, average, max, min, total even no and total odd no. [using array]

51. Write a c program to display the two matrix on screen and perform the addition of two matrix and print on screen.

52. Write a c program to display the two matrix on screen and perform the multiplication of two matrix and print on screen.

Practical Exam Scheme:

Program	Output	Viva	Journal	Total
25 Marks	15 Marks	20 Marks	10 Marks	70 Marks