P.G.D.C.A. Semester – I

DCA-105 : Practical Based on DCA - 101 (FPL-C)

Teaching Scheme (per week)		Teaching Scheme (per semester)		Examination Scheme					
				Internal		External		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 List)

1. Write a C program to display "hello World" on the screen.
2. Write a C program and draw flowchart to find the area of circle. (Formula Area=PI * r * r).
3. Write a C program and draw flowchart to evaluate simple interest (Formula I = P*R*N /100).
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 interchange two numbers.
6. Write a C program to convert Fahrenheit into centigrade. Formula: C= (F-32)/1.8.
7. Write a C program to perform addition, subtraction, multiplication and division Operation on any two numbers.
8. Write a C program to enter days and convert into years, month and remainder days.
9. Write a C program to find out the largest number from given three numbers using Conditional Operator
10. Write a C program to find the maximum number from given three numbers using nesting of if…else statement
11. Write a C program to find that the entered number is Negative or Positive or Zero.
12. Write a C program to Check whether the entered char is capital, small, digit or any special Character
13. Write a C program to read day number 1 to 7 and print relatively day Sunday to Saturday using switch statement.(1 for Sunday, 2 for Monday…..so on).
14. Write a C program to find out the maximum and minimum number from Given 10 numbers.
15. Write a C program to find the sum of digit of accepted number.
16. Write a C program to find the sum of first 100 odd numbers and even Numbers.
17. Write a C program to display first 25 Fibonacci nos.

18. Write a C program to check the accepted number is prime number or not.
19. Write a C program to display first' 100 prime numbers.
20. Write a C program to find factorial of accepted numbers.
21. Write a C program to find whether the accepted number is palindrome or not.

22. Write a C program to arrange the accepted numbers in ascending order and   descending order.
23. Write a C program to prepare pay slip using following data.
      Da = 50% of basic, Hra = 10% of basic, Ma = 300, Pf = 12.50% of basic, Gross = basic + Da + Hra + Ma, Net = Gross – Pf.
24. 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

25. Write a C program to display following output on the screen.
```
1
1 2
1 2 3
1 2 3 4
```
26. 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
```
27. Write a C program to display following output on the screen.
```
1
2 3
4 5 6
7 8 9 10
```
28. 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
```
29. Write a C program to display following output on the screen

C
 CP
CPR
CPRO
:
 CPROGRAMMING
 :
CPRO
CPR
CP
C

30. Write a C program to find maximum & minimum value from the given array.
31. 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]

32. Write a C program to find whether the accepted string is palindrome or not.
33. Write a C program to convert given line into upper case or lower case.
34. Write a C program to count no of word, character, line and space from given text.
35. Write a C program to sort given string in ascending order.
36. write a program which explain the use of string handling functions. (strcat(), strcpy(), strcmp(), strlen()).

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Practical Exam Scheme:

Practical	Viva	Journal	Total
40 Marks	20 Marks	10 Marks	70 Marks

Reference Books:

1. Programming in C, by Pradip Dey & Manas Ghosh, Publisher – Oxford
2. The Complete Reference, Herbert schildt Fourth Edition
3. Let Us C , Yashwant Kanetkar, BPB Publications
4. Programming in C, by Reena thareja Publisher – Oxford
5. Programming in ANSI C, Balagurusamy, Tata McGraw-Hill