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CAI-406/Prog. in C/4th Sem/2014/N

**COMPUTER PROGRAMMING
WITH C/C++**

Full Marks - 70

Pass Marks - 28

Time - Three hours

The figures in the margin indicate full marks for the questions.

PART - A

1. Answer the following questions : $2 \times 5 = 10$

(a) What will be the size of the following structure ?

struct sample

```
{  
    int x, y, z;  
    float w;  
};
```

(i) 6 bytes

(ii) 10 bytes

(iii) + bytes

(iv) None of these.

[Turn over

(b) Find out on which line number you will get an error.

Line 1 : void main ()

Line 2 : {

Line 3 : print (" \ n Hello world") ;

Line 4 : }

(i) Line 1

(ii) Line 2

(iii) Line 3

(iv) Line 4

(c) Which of the following is not a relational operator ?

(i) ! (ii) ! = (iii) > = (iv) <

(d) The operator && is an example for operator.

(i) Assignment

(ii) Increment

(iii) Logical

(iv) Relational.

- (e) Header files in C contain
- (i) Compiler commands
 - (ii) Library functions
 - (iii) Header information of C programs
 - (iv) Operators for files.

2. Answer *all* the questions : 2×5=10

- (a) What is the main difference between a variable and a constant ?
- (b) Whether the program in C can be executed by computer directly ?
- (c) Give the general syntax of conditional operator.
- (d) What is the use of strcat () function ?
- (e) What do you mean by call by value ?

PART - B

3. Answer any *five* questions. 4×5=20

- (a) Define program and list the features of C programming.

- (b) Write short note on Input and Output functions used in C with example.
- (c) Differentiate between local variable and global variable with example.
- (d) Explain symbolic constants used in C with example.
- (e) Explain the following C functions :
 - (i) getch ()
 - (ii) clrscr ()
- (f) Explain continue and break statement with example.

PART - C

4. Answer any *five* questions. 6×5=30
- (a) Which looping statements does C provide ? Explain any two with example.
 - (b) Explain switch statement with its syntax and example.
 - (c) What is array ? How to declare array ? Explain with suitable example.

- (d) What is Nested if else ? Explain with an example.
- (e) What is function ? How function is defined? Explain with an example.
- (f) Write a C language program to check whether given number is even or odd.