

FIRST SEMESTER

B.Tech.(GROUP B)

MID SEMESTER EXAMINATION

SEPTEMBER-2010

COE- 116 PROGRAMMING FUNDAMENTALS

Time: 1 Hour 30 Minutes

Max. Marks : 20

Note : Answer **ALL** questions.
Assume suitable missing data, if any.

- 1[a] List all the tokens used in the following program. Also mention their types. Write invalid for invalid tokens. Also identity errors, if any

```
void main ( )  
{  
    int 5i, j, k;  
    cout << "Enter three values";  
    cin >> 5i ;  
    Cin >> j ;  
    cin <<k ;  
    if (5i < j)  
        if ( j < k ) ;  
        cout << "/nLargest no is" <<k;  
    else  
        cout << "largest no is" <<j ;  
    else  
        if ( 5i < k)  
            cout << "Largest no is " <<k;  
        else  
            cout<< "Largest no is " << i ;  
}
```

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- [b] Write a program to find the sum of n numbers entered by the user. Please accept value of n from user.

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- 2[a] Explain different loop constructs available in C with the help of examples also make flow charts for any two loop structures.
- [b] C is a low level as well as high level language. Justify.

X 3[a] Write a program to find the length of a string entered by user.

[b] Identify the following constants

- | | | | |
|-------------|--------------|------------|--------------|
| (i) 5V | (ii) 5.0 V | (iii) 'AB' | (iv) '\XAB' |
| (v) 2.0e3.0 | (vi) 2.53e-4 | (vii) "53" | (viii) 0.175 |
| (ix) 057 | | | |

4[a] Draw flow chart for finding the average of natural numbers between 10 and 20.

[b] Explain the following:

- | | |
|-------------------------------|-------------------------------|
| (i) Algorithm | (ii) Types of Statements in C |
| (iii) Data Modifier & purpose | (iv) Machine language. |

Answered, Sir

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