Printed Pages: 4 CS-201

(Following Pape	r ID and Roll No. to be filled in your	
Answer Books)		
Paper ID: 199239	Roll No.	

B. TECH.

Theory Examination (Semester-II) 2015-16

COMPUTER PROGRAMMING

Max. Marks: 100 Time: 3 Hours

Note: Attempt all sections.

Section-A

- Attempt all parts. Each part carries 2 marks. 1. $(2 \times 10 = 20)$
 - What is pointer and how is it initialised? (a)
 - Write is the role of ALU? Explain.
 - What is the difference between following directives?

#include<stdio.h> #include "stdio.h" and

- Describe the functions of Operating System. (d)
- What are the escape sequences characters? (e)

(1)P.T.O.



- (f) What is enumerated data type?
- (g) What is the output of this C code?

```
int main()
{

    int x = 4;

    x = x << 1;

    printf("%d\n", x);
```

- (h) What happens if you create loop that is never ended?
- (i) Why C programming is called structured programming?
- What is the value of x for x= -17%-2.

Section-B

- Attempt any five questions. Each part carries 10 marks. (10×5=50)
 - (a) Write a program in 'C' to reverse a string through pointer.
 - (b) Write about the formatted and unformatted Input / Output functions in C.
 - (c) Write a program in 'C' print Fibonacci series using recursive function.

1 (2) P.T.O.



- (d) Draw a flow chart and write an algorithm to find sum and average of 3 numbers.
- (e) Explain with the help of an example, static and extern variable.
- (f) Compare the switch- case and nested if statement in C language with suitable example.
- (g) Write a program in 'C' to find that the given number is prime or not.
- (h) Differentiate between structure and union in 'C'. Write a 'C' program to store the employee details using structure.

Section-C

Attempt any two questions. Each question carries 15 marks.
(15×2=30)

- (i) Differentiate between break and continue with suitable example.
 - Write the difference between type conversion and type casting.

1 (3) P.T.O.

- (i) List out various file operations in C. Write a C program to count the number of characters in a file
 - (ii) What are the different types of Operator in C language and also write down the difference between the associativety and precedence of operators.
- (i) Write a program in 'C' to multiply the two matrices of size M × N.
 - (ii) Explain the following:
 - (a) Preprocessor
 - (b) Double precision
 - (c) Array of Structures