

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

Paper ID : 199225

Roll No.

B.TECH.**Theory Examination (Semester-II) 2015-16****COMPUTER SYSTEM & PROGRAMMING IN C****Time : 3 Hours****Max. Marks : 100****Note:** Attempt questions from all sections as per directions.**Section-A****Attempt all parts of this section. Answer in brief. (2×10 = 20)**

1. (a) Give the layout of a typical C program.
- (b) What do you mean by Algorithm?
- (c) What are the various components of Operating system?
- (d) Convert the octal number 2354 to equivalent hexadecimal number.
- (e) Write a short note on Android Operating system.

(1)

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Section-B

Attempt any five questions from this section. (10×5 = 50)

- What is special about void pointer?
- What do you mean by parameter passing mechanism?
- Write a program in C to print the following pattern:

```

A B C D E F G F E D C B A
A B C D E F   F E D C B A
A B C D E     E D C B A
A B C D       D C B A
A B C         C B A
A B          B A
A
    
```

(2)

- What are the enumerated data types? Explain in detail.

Section-C

Attempt any two questions from this section. (15×2 = 30)

- What are pre-processor directives? Explain any three of them.
- Explain loading and linking of a program in detail.
 - Write a program in 'C' that will read a positive number from the keyboard and print it in reverse order.

Ex: 24578 output: 87542

- Suppose a file contains students records with each record containing name and age of a student. Write a 'C' program to read these records and display them in sorted order by name.

(3)