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Name.....

Reg. No.....

**THIRD SEMESTER B.TECH. (ENGINEERING) DEGREE [14 SCHEME]
EXAMINATION, NOVEMBER 2015**

EN 14 302—COMPUTER PROGRAMMING IN C
(Common to all Branches)

Time : Three Hours

Maximum : 100 Marks

Part A

*Answer any eight questions.
Each question carries 5 marks.*

1. What is the function of CPU in a Computer ?
2. List down the features of the third generation computers.
3. Describe the functions of operating system.
4. In what way switch statement differ from an if statement ?
5. With a suitable program in 'C' illustrate 'if' statement.
6. Main is a user-defined function. How does it differ from other user-defined functions ?
7. Write a program in 'C'. Which will read a text and count all occurrences of a particular word ?
8. Explain the need for array variables.
9. Explain Nested structure and array of structures.
10. What is a pointer ? How it is initialized ?

(8 × 5 = 40 marks)

Part B

*Answer all questions.
Each question carries 15 marks.*

11. With a neat sketch, explain the memory hierarchy. Explain the different secondary memory in a computer.

Or

12. Briefly explain the following :—

(i) LAN.

(ii) WiFi.

13. Describe the most commonly used input and output operators in 'C'.

Or

14. With suitable example, explain any three commonly used input and output functions in 'C'.

Turn over

15. Explain in detail the parameters passing mechanism and discuss the different cases.

Or

16. What are arrays? With suitable program illustrate two dimensional arrays. Write down the general form of multidimensional arrays.

17. Write a program using pointers to read in an array of integers and print its elements in reverse order.

Or

18. Illustrate the use of putW and getW functions. Write a program to copy the contents of one file into another.

(4 × 15 = 60 marks)