

B. TECH DEGREE EXAMINATION, MAY 2012  
MODEL QUESTION PAPER  
FIFTH SEMESTER  
CE 010502 COMPUTER PROGRAMMING

Time: Three Hours

Maximum Mark: 100

**PART A**

(Answer All Questions)

1. Differentiate between Identifiers and keywords
2. Compare 'while' and 'do-while'?
3. What is meant by 'pointers' in C.?
4. Briefly explain with an example, a structure definition and declaration in C.
5. What is meant by 'data files' in C. Write a 'C' statement to open a data file.

(5x3 = 15)

**PART B**

(Answer All Questions)

6. Briefly explain with examples,
  - i] if-else
  - ii] Switch
7. Differentiate between 'break' and 'continue' with examples.
8. Briefly explain how arrays are passed to functions in 'C' programs.
9. Briefly explain dynamic memory allocation in C.
10. Briefly explain any five file handling functions in C with examples.

(5x5 = 25)

**PART C**

**Module I**

11. Given a set of hundred integers. Evolve an algorithm to find,
  - i] The total number of even integers
  - ii] The total number of odd integers
  - iii] Sum of all numbers divisible by 5.

OR

12 a] Explain the input –output functions used in C programming.

b] Write a C program to find the average of ‘n’ numbers.

**Module II**

13. a] Explain various storage classes used in C-programming with examples.

b] Explain different ways of passing arguments to a function.

OR

14. Write a C program to find the sum of the series

$$1 - \frac{x^2}{2!} + \frac{x^4}{4!} - \frac{x^6}{6!} \dots$$

**Module III**

15. Write a C program to sort a set of names in alphabetic order

OR

16 Write a C-program which uses a function to find the transpose of a given Matrix.

**Module IV**

17. Write a C-program to read the details of employees working in a company. The details include name, age, date, of joining and salary. Make use of a structure to develop the program.

OR

18 Write a C-program to sort a set of mark sheets of ‘n’ students. The mark sheet consists of the register number, name, marks of four subjects and total marks. Make use of a structure to develop the program.

**Module V**

19. Write C program to copy the contents of one file to another file.

OR

20. A file name DATA contains a set of 'n' integers. Write a C program to read these numbers and write the numbers divisible by 7 to a file named DIV7 and divisible by 9 to a file named DIV9.