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Reg No.: _____

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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

B.Tech Degree S3 (S,FE) / S1 (PT) (S,FE) Examination June 2024 (2015 Scheme)

Course Code: EE207

Course Name: COMPUTER PROGRAMMING

Max. Marks: 100

Duration: 3 Hours

PART A

Answer all questions, each carries 5 marks.

Marks

- | | | |
|---|--|-----|
| 1 | Explain briefly compiler, assembler and interpreter | (5) |
| 2 | With the help of an example point out the difference between assignment and equality operator in C | (5) |
| 3 | Write a C program to find the sum of digits of a number | (5) |
| 4 | Point out the differences between structure and union | (5) |
| 5 | Write down a C program to find the length of a string without using string handling function | (5) |
| 6 | Explain the concept of recursion with an example | (5) |
| 7 | Differentiate between address of operator and value of operator in pointers with examples | (5) |
| 8 | Write down the arithmetic operators in python with relevant examples | (5) |

PART B

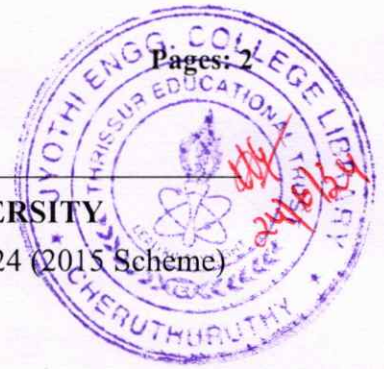
Answer any two full questions, each carries 10 marks.

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|----|--|-----|
| 9 | a) Explain different data types in C | (5) |
| | b) Write an algorithm and draw flowchart to check whether a year is leap year or not | (5) |
| 10 | a) Write a C program to check whether a given number is prime or not | (5) |
| | b) Write a C program to convert the time given in 12 hour format to 24 hour format | (5) |
| 11 | a) Write down the differences between while and do while statements | (5) |
| | b) Explain the structure of C program | (5) |

PART C

Answer any two full questions, each carries 10 marks.

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|----|--|-----|
| 12 | a) Write a C program to read a matrix A and check whether the matrix is symmetric or not | (8) |
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- b) Enumerate the advantage of using functions (2)
- 13 a) Describe various storage classes in C (5)
- b) Discuss any three string handling functions in C (5)
- 14 a) Differentiate pass by value and pass by reference with an example (5)
- b) Write a C program to read a string and check whether it is palindrome or not (5)

PART D

Answer any two full questions, each carries 10 marks.

- 15 a) Write a C Program to copy the contents of one file to another file (7)
- b) Explain any three file handling functions in C (3)
- 16 a) What is pointer? How it is initialised? (5)
- b) Write a C Program to swap two numbers using pointers (5)
- 17 a) Explain the various data types in python (5)
- b) Write a python program to find the factorial of a given number (5)
