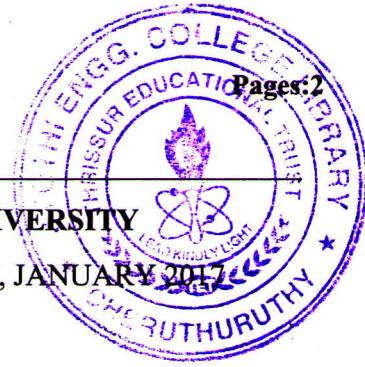**E**   **B3E047**

Reg. No._____   Name:_____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

THIRD SEMESTER B.TECH DEGREE EXAMINATION, JANUARY 2017

Course Code: **EE 207**

Course Name: **COMPUTER PROGRAMMING (EE)**

Max. Marks: 100   Duration: 3 Hours

PART A

Answer all questions. 5 marks each

1. a) Discuss various data types used in C with examples.   (3 marks)

    b) What do you understand by the term Keyword?   (2 marks)

2. With suitable example discuss the use break and continue statements.   (5 marks)

3. What do you mean by arrays? How they are initialized with declaration. (5 marks)

4. With suitable example explain what you understand by recursion.   (5 marks)

5. Distinguish between structures and unions with an example.   (5 marks)

6. Describe pointer variables.   (5 marks)

7. Explain any 3 file handling operations in C programming.   (5 marks)

8. Explain how variables are declared in Python.   (5 marks)

PART B

Answer any two questions. 10 marks each

9. Differentiate Machine Language, Assembly Language and High level Language.

                                        (10 marks)

10. Write the algorithm and draw the flowchart to find the average height of boys and girls in a class from a given set of student data.   (10 marks)

11. Discuss while, do while and for statement using suitable examples.   (10 marks)

PART C

Answer any two questions. 10 marks each

12. Write a C program to sort the values of an array in descending order.   (10 marks)

13. Write a C program to find the transpose of a matrix.   (10 marks)

14. a) With proper examples explain the storage classes in C.   (6 marks)

     b) Differentiate the user defined and library functions.   (4 marks)

PART D

Answer any two questions. 10 marks each

15. Write a C program to perform the file handling operation to read series integer number and write all odd number to a file to be called ODD and even numbers to EVEN.   (10 marks)

16. Using functions write a program to swap the contents of two memory locations.

                                                          (10 marks)

17. Write a python program to make a simple calculator.   (10 marks)