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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Third Semester B.Tech Degree (S,FE) Examination January 2022 (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 Differentiate between high level, low level and assembly languages. (5) 2 Write the output of the program: (5) main() int a=15,b=10,c,d,i; for (i=0; i<5; i++)c=++a-b: d=++b+a++;printf(" $c=\%d,d=\%d\n$ ",c,d); }} 3 How a two dimensional array is initialized. Also explain how to initialize a (5) string variable with example. With suitable example, explain the following terms: i) Function definition ii) 4 (5) Function prototype iii) Function call iv) Formal Argument v) Actual Argument 5 Discuss the differences and similarities between structure and union. (5) 6 What are pointers? Why they are used? Illustrate with example. (5)

PART B

Explain putc and getc functions using example. Write its syntax also.

What are the standard data types in Python? Explain any three.

Answer any two full questions, each carries 10 marks.

- 9 a) What are the different data types in C? Explain two user defined data types. (5)
 - b) Given the three sides of triangle. Write algorithm and flow chart to check (5) whether it is an isosceles triangle.

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a) Write a C program to compute the sum of n terms of the series: $1 + \frac{2}{3!} + \frac{3}{5!} + \frac{3}{5!}$ (5) 10 b) What is nested if statement. Write an example program using nested if. (5) 11 Write a C program to print palindrome numbers between 1 and 500. Draw its (10)flowchart also. PART C Answer any two full questions, each carries 10 marks. 12 a) Write a C program to find out average of given n numbers and how many of the (5) numbers are above average and how many are below average. b) Write a program to find number of small letters and capital letters in a string. (5) a) What is storage classes in C and explain two storage classes in C with 13 (5) example? b) List the string handling functions. Explain any three with example. (5) Write a C program to read a matrix and print this matrix using functions. (5) b) Write a recursive function to find factorial of a number. Use this function to (5) calculate nCr. PART D Answer any two full questions, each carries 10 marks. 15 Write a C program to find factorial of a number using pointer. (5) b) Write a C program to sort the array elements using pointer. (5)

17 a) How the structure variables are initialized in C? Explain with example.

the content of two files into a new file third.txt

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b) Write a python program to print odd numbers for a user provided range. (5)

Assume there are two files first.txt and second.txt. Write a C program to merge

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