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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 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) (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) 7 Explain putc and getc functions using example. Write its syntax also. (5) 8 What are the standard data types in Python? Explain any three. (5) PART B Answer any two full questions, each carries 10 marks. What are the different data types in C? Explain two user defined data types. 9 (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) 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) 13 a) What is storage classes in C and explain two storage classes in C with (5) example? b) List the string handling functions. Explain any three with example. (5)14 a) 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)16 Assume there are two files first.txt and second.txt. Write a C program to merge (10)the content of two files into a new file third.txt 17 a) How the structure variables are initialized in C? Explain with example. (5) b) Write a python program to print odd numbers for a user provided range. (5)

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