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Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Third Semester B.Tech Degree (S,FE) Examination January 2022 (2015 Scheme)

Course Code: MR201

Course Name: C PROGRAMMING

Max. Marks: 100

Duration: 3 Hours

PART A

Answer all questions, each carries 5 marks.

		Marks
1	Demonstrate the concept of High Level Languages and also list out its advantages.	5
2	Define an Operating System. Explain its functions.	5
3	Draw the basic structure of C Programming. Explain it.	5
4	Elucidate in detail about Recursion and give an example.	5
5	Is the array initialization <code>int number[]={1,2,3,4,5,6,7,8};</code> will work? Justify your answer.	5
6	Justify the need of Arrays in C.	5
7	Explain in detail about union in C?	5
8	How to declare structure in C?	5

PART B

Answer any three questions, each carries 10 marks.

9	a) Write a short note on Memory Hierarchy.	10
10	a) Describe in detail about System Software with example.	5
	b) Give a brief idea about Compilers and list out its advantages and disadvantages.	5
11	a) Demonstrate the concept of SWITCH CASE in C programming. Give an example.	5
	b) Develop a program to display the pattern	5

- 12 a) List out different types of storage classes and explain with example. 10
13 a) Explain in detail about different categories of functions with example. 10

PART C

Answer any two questions, each carries 15 marks.

- 14 a) Demonstrate the concept of Arrays and its Types in C. Give an example of each type. 15
15 a) Develop a program to store and print 1, 1, 1, 1, 1, 1, 1, 1, 1 in a matrix. 10
b) What is the need of pointers in C. 5
16 a) Describe in detail about files and its Operations. 15
17 a) Give a detailed explanation about structures. 10
b) Differentiate between structure and union. 5
