

Reg No.: \_\_\_\_\_

Name: \_\_\_\_\_

**APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY**  
 Third Semester B.Tech Degree (S,FE) Examination December 2020



Course Code: MR201

Course Name: C PROGRAMMING

Max. Marks: 100

Duration: 3 Hours

**PART A***Answer all questions, each carries 5 marks.*

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|---|--|---|
| 1 | Demonstrate the concept of Assembly Languages and also list out its limitations.                     | 5 |
| 2 | Draw a flow chart to find the larger of 2 numbers. Explain the symbols used in it.                   | 5 |
| 3 | Elucidate about system software and application software in detail with examples.                    | 5 |
| 4 | Illustrate about the functions with return type and arguments.                                       | 5 |
| 5 | Is the array initialization <code>int number [5] = {1, 2, 3};</code> will work? Justify your answer. | 5 |
| 6 | How to initialize a one dimensional Array. Give an example.  | 5 |
| 7 | Justify the need of pointer in C?  | 5 |
| 8 | How to declare union in C?   | 5 |

**PART B***Answer any three questions, each carries 10 marks.*

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|----|--|---|
| 9  | a) What are the difference between LINUX and WINDOWS?                                | 5 |
|    | b) Develop a program to print odd numbers from 0-20.                                 | 5 |
| 10 | a) Write a short note on Wi-Fi.  | 5 |
|    | b) Differentiate between Compilers and Assemblers.                                   | 5 |
| 11 | a) Demonstrate the concept of IF loop in C programming. Give an example.             | 5 |
|    | b) Develop a program to display a number if it is positive.                          | 5 |
| 12 | a) Elucidate about AUTO and EXTERN storage classes with example.                     | 5 |
|    | b) What are the needs of C Pre-processors?   | 5 |
| 13 | a) Develop a program to print the message<br>***ROBOTICS***<br>The Future is Here... | 5 |
|    | b) Develop a program to check whether a person is eligible for voting or not.        | 5 |

**PART C**

*Answer any two questions, each carries 15 marks.*

- 14 a) How to initialize a one Dimensional array in compile time. Give an example. 10  
b) Develop a program to print an array in reverse order. 5
- 15 a) Develop a program to store and print 10, 20, 30, 40, 50, 60, 70, 80, and 90 in a matrix. 10  
b) Elucidate about the general format for declaring a structure. 5
- 16 a) Differentiate between structure and union? 10  
b) How to open and close a file in C Language? 5
- 17 a) Describe in detail about two dimensional arrays with example. 10  
b) Explain briefly about multi-dimensional arrays. 5

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