

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
THIRD SEMESTER B.TECH DEGREE EXAMINATION, DECEMBER 2018

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 | Explain the latest trends and technologies of storage, memory, processor and printing. | 5 |
| 2 | Write down the definition and the functions of Operating System. | 5 |
| 3 | Explain input output functions. | 5 |
| 4 | Explain function definition, function call and function declaration. | 5 |
| 5 | Write C program to read 3×4 array and print the elements in that array. | 5 |
| 6 | Explain array declaration and array definition with an example. | 5 |
| 7 | Explain declaration, definition and initialization of structures. | 5 |
| 8 | Explain the concept of a file. | 5 |

PART B

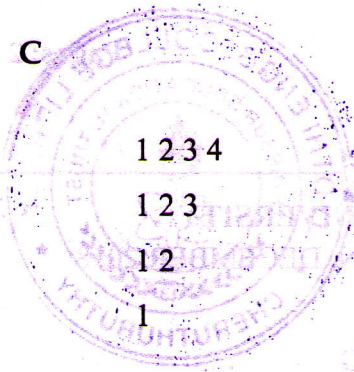
Answer any three questions, each carries 10 marks.

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|----|---|---|
| 9 | a) Explain the types of programming languages. | 7 |
| | b) Write down the advantages and disadvantages of the programming languages. | 3 |
| 10 | a) Explain Computer Networks. | 5 |
| | b) Distinguish between LAN and Wi-Fi. | 5 |
| 11 | a) Write down the general form of the switch statement. | 5 |
| | b) Draw the flowchart of switch statement. | 5 |
| 12 | a) Explain parameter passing methods in C. | 5 |
| | b) Write C program to calculate factorial of a number using recursion. | 5 |
| 13 | a) Write C program to generate following mirrored right triangle star patterns. | 5 |

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| b) | Write C program to generate the following inverted half pyramid using numbers. | 5 |
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PART C

Answer any two questions, each carries 15 marks.

- 14 Write C program for the matrix addition using arrays. 15
- 15 a) Explain declaration and initialization of one dimensional array with example. 7
- b) Explain declaration and initialization of two dimensional arrays with example. 8
- 16 Write C program to read and display the student details using structure. 15
- 17 a) Explain Pointers. 5
- b) Explain how to declare and initialize a pointer variable with an example. 10

PART B

Answer any three questions, each carries 10 marks.

- 9 Explain the types of programming languages.
- 10 a) Explain Computer Networks.
- b) Explain the concept of a file.
- 11 a) Write down the general form of the switch statement.
- b) Draw the flowchart of switch statement.
- 12 a) Explain parameter passing method in C.
- b) Write a program to calculate factorial of a number using recursion.
- 13 a) Write a program to generate following mirrored right triangle star patterns.