



TED (15) – 2131
(REVISION — 2015)

Reg. No.
Signature

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/
MANAGEMENT/COMMERCIAL PRACTICE — OCTOBER, 2019**

PROGRAMMING IN C

[Time : 3 hours

(Maximum marks : 100)

PART — A

(Maximum marks : 10)

Marks

I Answer *all* questions in one or two sentences. Each question carries 2 marks.

1. Define keywords in C.
2. Name four storage classes in C.
3. What is meant by recursion ?
4. What is meant by array in C ?
5. Name any two standard string handling library functions.

(5 × 2 = 10)

PART — B

(Maximum marks : 30)

II Answer any *five* of the following questions. Each question carries 6 marks.

1. Write a C program to find the largest among three numbers.
2. Distinguish between while and do-while with example.
3. Explain register and external storage class in C.
4. Compare call by value and call by reference parameter passing mechanism.
5. Write a C program to find the sum of elements in an array.
6. Write a C program to add two matrices.
7. Explain any three standard library string functions with examples.

(5 × 6 = 30)



PART — C

(Maximum marks : 60)

(Answer *one* full question from each unit. Each full question carries 15 marks.)

UNIT — I

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| III | (a) Explain hierarchy of operators. | 8 |
| | (b) Write a C program to find the sum of digits of a number. | 7 |

OR

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| IV | (a) Explain break and continue statements with example. | 8 |
| | (b) Explain the switch and case statements with example. | 7 |

UNIT — II

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| V | (a) List the uses of functions in C. | 8 |
| | (b) Distinguish between macro and function. | 7 |

OR

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| VI | (a) Explain macros with arguments with example. | 8 |
| | (b) Explain function definition and prototype with example. | 7 |

UNIT — III

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| VII | (a) Write a program that passes an entire array to a function. | 8 |
| | (b) Explain about pointers and arrays with example. | 7 |

OR

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| VIII | (a) Write a C program to search an element in an array. | 8 |
| | (b) Explain array of pointers with example. | 7 |

UNIT — IV

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| IX | (a) Write a user defined function to compare two strings without using standard library function. | 8 |
| | (b) Demonstrate declaration and accessing of a structure variable with the help of an example. | 7 |

OR

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| X | (a) Compare array and structure with examples. | 8 |
| | (b) Write a C program to check whether a string is palindrome or not. | 7 |
