



C16-EC-406

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**5653**

**BOARD DIPLOMA EXAMINATION, (C-16)  
OCTOBER/NOVEMBER-2018  
DECE-FOURTH SEMESTER EXAMINATION**

PROGRAMMING IN C

Time : 3 Hours ]

[ Total Marks: 80

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**PART-A**

3X10=30

- Instructions :**
1. Answer **All** questions.
  2. Each question carries **Three** marks.
  3. Answer should be brief and straight to the point and shall not exceed five simple sentences.

1. List any six operators used in C?
2. Mention various type conversion techniques?
3. Write the format of conditional expression with an example?
- \* 4. Differentiate break and continue statements?
5. Define (a) String (b) Array?
6. Write the operation of getchar () and getch()?
7. State the use of return statement?
8. Define recursion and give example?
9. List 6 conditional pre-processor directives?
10. Write about nested structure concept?

## PART-B

10X5=50

- Instructions* : \*  
1. Answer any **Five** questions.  
2. Each question carries **ten** marks.  
3. Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer

11. (a) Explain Printf() and Scanf () functions?  
(b) Explain the data types in C?
12. Explain while loop, Do-while and for loops?
13. (a) Write a C program to find whether a number is palindrome or not using while loop?  
(b) Write a C program to check whether input alphabet is a vowel or not using switch case statement?
14. Explain the operations of string manipulation functions stract (), strchr(), strcmp (), strcpy () and strlen ()?
15. (a) Explain declaration and initialization of two-dimensional array with syntax?  
(b) Write a C program to find largest element in array?
16. Explain four storage classes supported by C?
17. Explain passing parameters to the function by using “Call by reference technique” with example?
18. (a) List 6 unconditional pre-processor directives?  
(b) Differences between Structure and Union?

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