



C-16-C-16S-EC-406

**5653**

**BOARD DIPLOMA EXAMINATION, (C-16-C-16S)**

MARCH / APRIL - 2019

**DECE - IV SEMESTER EXAMINATION**

**PROGRAMMING IN C**

Time : 3 Hours]

[Total Marks : 80

**PART - A**

**3×10=30**

- Instructions :**
- (1) Answer **ALL** questions.
  - (2) Each question carries **THREE** marks.
  - (3) Answer should be brief and straight to the point.

- 1 List the character set of C Language.
- 2 List three Logical Operators of C Language.
- 3 List the conditional statements supported by C.
- 4 List the three types of iterative statements supported by C.
- 5 Declare one dimensional and two dimensional arrays.
- 6 List three functions used for reading strings.
- 7 List the Storage classes supported by C.
- 8 Differentiate between Local & External Variables.
- 9 Define Structure and Union with example.
- 10 List six Conditional pre-processor directives.

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[ Contd...

**PART - B**

**10+5=50**

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

- 11 (a) Explain the data types in C.  
(b) Explain Printf( ) and Scanf( ) functions.
- 12 Explain If, If else and If-else-If statements with example.
- 13 Explain while loop, Do-while and For loops with examples.
- 14 Write a C program to find sum of N numbers, stored in an array of size N.
- 15 Explain any five string manipulation functions with examples.
- 16 Explain passing parameters to the function by using "call by value technique" with Sample program.
- 17 (a) Differentiate address and de referencing. **4+6**  
(b) Explain pointer arrays with example.
- 18 Explain the pre-processing directives :  
(a) define, (b) include, (c) ifdef, (d) ifndef.

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