



C14-EC-406

**4460**

**BOARD DIPLOMA EXAMINATION, (C-14)**  
**SEPTEMBER/OCTOBER - 2020**  
**DECE—FOURTH SEMESTER EXAMINATION**  
PROGRAMMING IN 'C'

*Time : 3 hours ]*

*[ Total Marks : 80*

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**PART—A**

3×10=30

**Instructions :** (1) Answer **all** questions.  
(2) Each question carries **three** marks.  
(3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.

1. List any six keywords in C.
2. Write the simple programme to print 'SBTETAP' on the screen.
3. Write a C programme using conditional operator.
4. Show the use of 'goto' statement.
5. Write the syntax to initialize an array.
6. List any three functions for writing strings with example.
7. Define pointer.
8. State the use of 'return' statement.

- \* 9. List six conditional preprocessor directives.
10. Write a syntax to find size of a structure using 'sizeof' operator.

**PART—B**

10×5=50

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

11. (a) Explain about increment and decrement operators. 5  
 (b) Explain passing entire structure as function argument. 5
12. Explain about iterative statements in C. 10
13. Explain 'switch case' statement with one example. 10
14. Write a C programme to find matrix multiplication. 10
15. Write a C programme to find sum of odd numbers, sum of even numbers and average of numbers in an array. 10
16. Explain storage classes supported by C. 10
17. Explain the concepts 'call by value' and 'call by reference' to swap two numbers. 10
- \* 18. (a) Write the differences between structure and union. 4  
 (b) Explain any three preprocessor directives. 6

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