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BOARD DIPLOMA EXAMINATION, (C-20)
JUNE/JULY—2022

DAEI - THIRD 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) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. List the five arithmetic operators in C and give their precedence.

2. Define identifiers and give any two examples.

3. List decision making statements used in C.

4. Define nested loops.

5. Compare between *while* and *do..while* loop statements.

6. Define an array.

7. List the functions used for reading strings.

8. Define function.

9. List the four storage classes supported by C.

10. Define a pointer.

PART—B

8×5=40

Instructions : (1) Answer **all** questions.

(2) Each question carries **eight** marks.

(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. *(a)* List the data types used in C and explain them with examples.

(OR)

(b) Explain the pre-processor directives : #define, #include by taking examples.

12. *(a)* Write the syntax of *IF..ELSE Ladder..* statement and explain.

(OR)

(b) Write a program to display first *n* natural numbers using loops.

13. *(a)* Explain declaration, initialization and accessing elements of one dimensional array.

(OR)

(b) Write a program to check whether the given string is palindrome or not.

14. *(a)* Write a program to find sum and average of any five numbers using function with arguments, with return values.

(OR)

(b) Differentiate between local and external variables.

15. *(a)* Explain declaring structure variable and initialization of structure.

(OR)

(b) Write a sample program to declare and initialize the pointers.

PART—C   10×1=10

Instructions : (1) Answer the following question.

(2) The question carries **ten** marks.

(3) Answer should be comprehensive and criterion for valuation is the content but not the length of the answer.

16. Write a program to print odd numbers between 1 and 100 using loops.

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