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**P.G. DIPLOMA IN COMPUTER APPLICATION
(FIRST SEMESTER)
EXAMINATION, Dec. - Jan., 2021-22
(New Course)
PROGRAMMING IN C
(PGDCA-103)**

Time : Three Hours]

[Maximum Marks:80

Note : Attempt any two parts from each unit. All questions carry equal marks.

Unit - I

1. (A) What do you mean by operator precedence and associativity? Explain with example.
(B) Explain data types in C.
(C) Write a Program in C language that calculate simple and compound interest.

Unit - II

2. (A) Compare Iteration and Recursion function in C.
(B) What is user defined function and library function? Explain both with example.
(C) Explain break statement, continue statement, goto statement in C language with example.

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Unit - III

3. (A) What is void pointer? Explain with an example.
(B) Explain string handling functions used in C with example. (any 5)
(C) Write short notes on-
 - (i) Array of pointer.
 - (ii) Pointer constant.
 - (iii) Multi-dimensional arrays.

Unit - IV

4. (A) Explain the scope of union & differentiate between structure & (and) union with suitable example.
(B) Write a program in C language to define a structure book with bname, author, bookid, price. Enter data for five books and then print the five books with bname, author, bookid, price.
(C) Write short notes on-
 - (i) Array of structure
 - (ii) Structure within structure
 - (ii) Pointer to structure

Unit - V

5. (A) Explain malloc() & free() functions with example.
(B) Explain the structure of file handling program in C.
(C) Write short notes on-
 - (i) Unbuffered and buffered file.
 - (ii) fgetc()
 - (iii) fscanf()
 - (iv) rewind()

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