Total No. of Units   : 05
Total No. of Printed Pages : 04

Unit - V

Q.5 A. Declare a structure student with Roll_Number, Name and Gender as members. **(2)**

Q.5 B. What is the use of dot (.) operator in C? **(2)**

Q.5 C. What are the uses of structures? **(4)**

OR

How are structures different from arrays? Explain with example.

Q.5 D. What is the difference between Structure and Union? **(12)**

OR

Declare a structure to store the details of an Employee as Employee Number, Name, Gender, Salary and mobile number. Initialize the details of 2 Employees and display them.

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Code No. : 01/217

First Semester Examination, Dec. 2018

PGDCA

Paper - II

PROGRAMMING IN C

Time : 3 Hrs.   Max. Marks : 100

● Part A and B of each question in each unit consist of very short answer type questions which are to be answered in one or two sentences.
Part C (Short answer type) of each question will be answered in 200-250 words.
Part D (Long answer type) of each question should be answered within the word limit 400-450.

Unit - I

Q.1 A. How to declare a constant float variable PI and initialize it with the value 3.14. **(2)**

Q.1 B. What is the use of % id format? **(2)**

Q.1 C. What do you mean by Precedence of operators? Explain with example. **(4)**

OR

What are logical and relational operators in C?

Q.1 D. Write a C program to read two integers as input from the user and print their average. If the inputs are 2 and 3 then the output should be 2.50. **(12)**

     P.T.O.

OR

Write a C program to read the principal, rate of interest and time as input and calculate the simple interest using the formula interest = (principal * rate * time) / 100.

Unit - II

Q.2 A. What are the different kinds of loops in C? **(2)**

Q.2 B. Give the syntax of if -else statement. **(2)**

Q.2 C. Give the syntax of switch statement in C. **(4)**

OR

Explain the importance of break statement in switch case using example program.

Q.2 D. Write a C program to read three integers from the user and print the value of the largest of them. **(12)**

OR

Write a C program to read an integer and print whether that integer is positive, negative or zero.

Unit - III

Q.3 A. Write the statement to declare an integer array of 2 rows and 3 columns. **(2)**

Q.3 B. Give the statement to declare a function Sum( ) that takes two integers as arguments and return their sum. **(2)**

Q.3 C. Explain Recursion with example. **(4)**

OR

Write a C program to print the Fibonacci series 1, 1, 2, 3, 5, 8, 13, 21... up to 10 terms using recursion.

Q.3 D. What do you mean by user defined function? Give an example program to explain user defined function. **(12)**

OR

What are the advantages of creating user defined functions? Explain the steps to declare, define and call a function using an example program.

Unit - IV

Q.4 A. Give a statement to declare a pointer to an integer pointer. **(2)**

Q.4 B. What is the use of address of operator? **(2)**

Q.4 C. What are the uses of pointers in C? **(4)**

OR

Write a program to swap two integers using pointers.

Q.4 D. Write a program that uses pointers to display the reverse of a string. **(12)**

OR

Write a C program to display a two dimensional array using pointers.

P.T.O.