

JUN 2006

Subject Code—4375-X

**P.G.D.C.A. EXAMINATION**

(First Semester)

(Re-appear)

MS-02

**COMPUTER PROGRAMMING AND PROBLEM  
SOLVING**

*Time : 3 Hours*

*Maximum Marks : 100*

**Note :** Attempt any *Five* questions. All questions carry equal marks.

1. (a) Write an algorithm and draw flow chart to calculate sum of digits of a number.
- (b) Describe about arithmetic and logical expression and their operators precedences.

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2. (a) Write a program to find mean and standard deviation with the help of functions.  
(b) Differentiate between iterative and recursion functions with the help of suitable example.
3. (a) Describe conditional operator their precedences with suitable example.  
(b) Discuss difference between different control statements with the help of palindrom program.
4. (a) Describe about Pointer. Show that pointer are better than static storage/arrays.  
(b) Explain different operations on pointers.
5. (a) Compare structure, union and enum with the help of suitable example.  
(b) Describe about different operations on strings.
6. (a) Write a program to create file, open, insert data in file and retrieve data from file.

- (b) Write a program to compare data of two files and give message if data are not same.
7. (a) Explain input and output functions with suitable examples.
- (b) What are different preprocessor commands ? Explain with their utilities.
8. Write short notes on any *two* of the following :
- (a) Multi-dimensional Arrays
- (b) Macro
- (c) Library Functions.