



M 26750

Reg. No. :

Name :

First Semester M.C.A. (Reg./Sup./Imp.) Degree Examination, February 2015
(2013 and Earlier Admn.)

MCAC 1.2 : PROGRAMMING AND PROBLEM SOLVING USING "C"

Time : 3 Hours

Max. Marks : 80

Instructions : Answer any five questions.
Each question carries 16 marks.

1. a) Explain the importance of programming concepts using flowchart and algorithms for any problem solving methods with suitable example. 8
b) Describe the various primitive data types in 'C' programming. 8
2. a) List out the access modifiers and data type conversions in 'C' programming explain with suitable examples. 8
b) Explain the working of switch statement with a flowchart and a suitable example. 8
3. a) Define recursion. Write a recursive programme for finding factorial of a number using points. 8
b) Develop an algorithm to find the sum of the digits a number till the sum reduces to a single digit. 8
4. a) Write a program for finding maximum and minimum of a given array of 'N' number. 8
b) Explain the following methods of passing parameter to a function with suitable examples. 8
 - i) Pass by value
 - ii) Pass by reference.
5. a) Define preprocessor. How to distinguish Macro and preprocessor in 'C' programming ? Explain with suitable examples. 8
b) What are the merits of dynamic memory allocation functions ? Briefly explain any three of them. 8

P.T.O.



6. a) Define booting process. Explain the very essential files require for booting process. 8
- b) Distinguish the various characteristics feature of dialog boxes and error boxes. 8
7. a) What is data file ? Explain the various file handling operations with suitable examples. 8
- b) Write a program to copy the contents of one file to another file. 8
8. Write short notes on the following : (4×4=16)
- a) Bit wise operations
- b) TSR projects
- c) Structure and union
- d) Multiple indirection.

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