



RF-4801

M. C. A. (Sem. II) Examination

April / May – 2010

204 : Advanced C Programming & System Software
(Old & New Course)

Time : 3 Hours]

[Total Marks : 70

Instructions :

नीचे दशांशवेक निशानीवाणी विगतो उत्तरवही पर अवश्य लिखवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="M. C. A. (SEM. 2)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="204 : ADVANCED C PROGRAMMING & SYSTEM SOFTWARE"/>	<input type="text"/>
Subject Code No. : <input type="text" value="4"/> <input type="text" value="8"/> <input type="text" value="0"/> <input type="text" value="1"/>	<input type="text"/>
Section No. (1, 2,.....) : <input type="text" value="NIL"/>	
Student's Signature	

- 1 Answer in brief (any ten) 20
- (a) What's the difference between `#include <>` and `#include ""`?
 - (b) What's wrong with the call `fopen("c:\newdir\file.dat", "r")`?
 - (c) What do you understand by loading and linking of a program?
 - (d) Define a self-referential structure to represent a set of integer numbers in linked list form.
 - (e) Explain the pre-processor operators `#` and `##` with proper examples.
 - (f) Which bitwise operators are available in C?
 - (g) What is a "sequence point"?
 - (h) What is Absolute Loader?
 - (i) What is relocation factor?
 - (j) Write the difference between `malloc()` and `calloc()`.
 - (k) How can a portion of an array be passed to a function? Explain with example.

- 2** Answer the followings (any two) **12**
- (a) What is a command line argument? Write a command line program to count no. of words in passed file.
 - (b) What do you mean by resolution, graphics mode and graphics driver? Explain `intigraph()`, `closegraph()`, `detectgraph()`, `drawpoly()` functions.
 - (c) Explain phases of compiler in detail.
- 3** Answer the followings (any two) **12**
- (a) Explain various methods to pass and return structure from user define function.
 - (b) Explain "r+", "w+" and "a+" modes of file handling in detail.
 - (c) Explain following functions : `fillpoly()`, `moveto()`, `fread()`, `calloc()`
- 4** Answer the followings : (any three) **12**
- (a) List various preprocessor statements of C language? Explain any one of these.
 - (b) Define Terms: Intermediate Code, Language Processors.
 - (c) Write note on Regular Expression.
 - (d) Write a note on Parse Tree.
- 5** Do as directed: **10**
- Write interactive "C" program for
- Declare a structure called hospital consisting of the data members: `PatientID`, `PatientName` and `DiseaseName`.
 - Use this structure to accept the data from the user and store them in "Patient.dat". There must be one record for every patient in the file.
 - Use "Patient.dat" to search for the details of the patient whose name is entered by the user and display all the detail of all patients.