

OCTOBER 2013

**P/ID 17453/
RCC/PCAE**

Time : Three hours

Maximum : 75 marks

PART A — (5 × 5 = 25 marks)

Answer ALL questions.

All questions carry equal marks.

1. (a) Name and describe the four data type qualifiers. To which data types can each qualifier be applied?

Or

- (b) Describe the two different ways to utilize the increment and decrement operators using simple C statements.

2. (a) Write necessary C statements in a program to illustrate the properties of a static variable (use function concept).

Or

- (b) Briefly discuss pointers with arrays.

3. (a) Write a sample C program outline to illustrate the concept of passing arrays to a function.

Or

- (b) Name the four different storage-class specifications in C. Also give their syntax and explain.
4. (a) What is the purpose of the typedef feature? How is this feature used in conjunction with structure?

Or

- (b) With necessary C declarations explain the methods of accessing an individual union member.
5. (a) Write a program to copy one string into another.

Or

- (b) Write short note on random access to files.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

All questions carry equal marks.

6. Briefly discuss about variation data types in C.
7. With an illustration explain the selection process of the switch statement.
8. Explain about any two function categories based on arguments and return values.
9. Explain the use of pointers in arithmetic expressions.
10. Explain the methods of accessing array elements using pointer.
11. Briefly discuss about dynamic memory allocation.
12. Explain the method of structure declaration involving the use of typedef.
13. Explain the method of error handling during I/O operations.