

Roll No.

Y-2075

B. C. A. (Part I) EXAMINATION, 2015

Paper Fifth

PROGRAMMING IN 'C' LANGUAGE

Time : Three Hours]

[Maximum Marks : 100

[Minimum Pass Marks : 40

Note : Attempt any two parts from each question. All questions carry equal marks.

1. (a) What do you understand by data types ? Explain various data types with its memory allocation. 10
- (b) What do you understand by operators ? Explain various operators with its precedence. 10
- (c) Write short notes on the following : 10
 - (i) getch()
 - (ii) getche()
 - (iii) putchar()
 - (iv) putc()
 - (v) getc()
2. (a) What do you understand by multidimensional arrays ? Write a program in 'C' to search a element in an array. 10
- (b) What is call by value and call by reference in 'C' programming ? Explain with suitable example. 10

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- (c) Write a program in 'C' to find factorial of a given number using recursion. 10
3. (a) What do you understand by structure in 'C' ? Explain with example. 10
- (b) Explain Union in 'C' with example. What is the difference between union and structure ? 10
- (c) Write short notes on the following : 10
- (i) Enum
 - (ii) Passing structure to function
 - (iii) Nested structure
 - (iv) Typedef statement
4. (a) Explain various dynamic memory allocation functions with proper example. 10
- (b) Write a program in C to demonstrate the use of pointer to pointer. 10
- (c) Write short notes on the following : 10
- (i) & and * operators
 - (ii) void pointers
 - (iii) pointer arithmetic
 - (iv) array to pointer
 - (v) pointer to array
5. (a) Explain various file accessing functions in C with example. 10
- (b) Explain C preprocessor directives with an example. 10
- (c) What is Command line argument ? Explain with example. 10

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