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**M. C. A. ENTRANCE**

**TEST CODE: C PROGRAMMING TEST - II**

**Total Questions: 25**

**Max. Time: 30 Min.**

1. What is the only function all C programs must contain?  
(a) start() (b) system() (c) main() (d) program()
2. Which of the following is a correct comment?  
(a) /\* Comments \*/ (b) \*\* Comment \*\*  
(c) /\* Comment \*/ (d) { Comment }
3. Which of the following is not a correct variable type?  
(a) float (b) real (c) int (d) double
4. Which of the following is true?  
(a) 1 (b) 66 (c) .1 (d) -1  
(e) All of the above
5. What is the final value of x when the code `int x; for(x=0; x<10; x++) { }` is run?  
(a) 10 (b) 9 (c) 0 (d) 1
6. How many times is a do while loop guaranteed to loop?  
(a) 0 (b) Infinitely (c) 1 (d) Variable
7. When does the code block following `while(x<100)` execute?  
(a) When x is less than one hundred  
(b) When x is greater than one hundred  
(c) When x is equal to one hundred  
(d) While it wishes
8. Which of the following is the proper declaration of a pointer?  
(a) `int x;` (b) `int &x;` (c) `ptr x;` (d) `int *x;`
9. Which of the following gives the memory address of integer variable a?  
(a) `*a;` (b) `a;` (c) `&a;` (d) `address(a);`
10. Which of the following is the proper function to allocate memory?  
(a) new (b) malloc () (c) create (d) value
11. Which of the following is the proper function to deallocate memory?  
(a) free() (b) delete (c) clear (d) remove
12. Which of the following is a properly defined struct?  
(a) `struct {int a;}` (b) `struct a_struct {int a;}`  
(c) `struct a_struct int a;` (d) `struct a_struct {int a;};`
13. Which properly declares a variable of struct foo?  
(a) `struct foo;` (b) `struct foo var;` (c) `foo;` (d) `int foo1`
14. Which of the following correctly declares an array?  
(a) `int anarray[10];` (b) `int anarray;`  
(c) `anarray {10};` (d) `array anarray[10];`
15. Which of the following correctly accesses the seventh element stored in foo, an array with 100 elements?  
(a) `foo[6];` (b) `foo[7];` (c) `foo(7);` (d) `foo;`
16. Which of the following gives the memory address of the first element in array foo, an array with 100 elements?  
(a) `foo[0];` (b) `foo;` (c) `&foo;` (d) `foo[1];`
17. Which of the following functions compares two strings?  
(a) `compare();` (b) `stringcompare();`  
(c) `cmp();` (d) `strcmp();`
18. Which of the following adds one string to the end of another?  
(a) `append();` (b) `stringadd();`  
(c) `strcat();` (d) `stradd();`
19. Which header file do you need to include to use typecasting?  
(a) `iostream.h` (b) `ctype.h` (c) `math.h` (d) None

20. Which is a valid typecast?

- (a) a(char);    (b) char:a;    (c) (char)a;    (d) to(char, a);

21. Which conversion is not possible?

- (a) int to float                      (b) float to int  
(c) char to float                      (d) All are possible

22. What variable stores the number of arguments to a program?

- (a) argc                      (b) argv                      (c) count                      (d) arglen

23. In what order do the two command line variables appear in the definition of main?

- (a) Count then argument array  
(b) Argument array then count  
(c) They don't appear in the definition of main  
(d) There is only one argument.

24. What's the difference between these two declarations?

struct x1 { ... };

typedef struct { ... } x2;

- (a) The first form declares a "structure tag"; the second declares a "typedef".  
(b) The first form declares a "structure tag"; the second declares a Variable of type struct  
(c) second statement cannot be declared  
(d) both are same

25. what will the following code do if the initial value of i is 2

a[i] = i++;

- (a) will assign a[2] = 2                      (b) will assign a[3] = 2  
(c) will assign a[3] = 3                      (d) undefined behaviour