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M. C. A. ENTRANCE

TEST CODE: C PROGRAMMING TEST - I

Total Questions: 25 Max. Time: 30 Min.

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1. Which of the following is evaluated first: (a) && (b) (c) ! (d) =	8. What is the output of the following code: int v()
2. What does 7/9*9 equal (in C and C++)? (a) 1 (b) 0.08642 (c) 0 (d) error	int m=0; return m++;
3. Which of the following is not a valid declaration for main()?	int main()
(a) int main() (b) int main(int argc, char *argv[]) (c) void main() (d) all of them are valid	printf("%d",v()); }
4. Evaluate the following as true or false: !(1 &&0 !1) (a) True (b) False	(a) 1 (b) 0 (c) Code cannot compile (d) 2 9. Evaulate the following: -22%5
(c) Invalid statement (d) cannot be evaluated in true or false	(a) 2 (b) 4 (c) 0 (d) -2
5. If you continuously increment a variable, it will become negative?	10. Which datatype can store decimal numbers? (a) unsigned int (b) char (c) float (d) long
(a) True (b) False (c) It depends on the variable type (d) it will lead to infinity	11. What does the code "printf("%d",(0==0));" print? (a) 0 (b) 1 (c) Compiler error: Lvalue required (d) 2
6. What character terminates all strings composed of character arrays?	12. What will happen when the following code is run: int x;
(a) \0 (b) . (c) \END (d) NULL	while(x<100)
7. Evaluate the following: int fn(int v)	printf("%d",x); x++;
{ if(v==1 v==0) return 1; if(v%2==0)	(a) The computer will output "012399" (b) The computer will output "0123100" (c) The loop will not execute (d) The output is undefined
return $fn(v/2)+2$; else return $fn(v-1)+3$;	13. In the following declaration of main, "int main(int argc, char *argv[])", to what does argv[0] usually correspond? (a) The first argument passed into the program
for fn(7); (a) 10 (b) 11 (c) 1 (d) 2	(b) The program name (c) You can't define main like that (d) The no. of arguments

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(d) extern

(d) error

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14. What is the outcome of running the following code:
                                                              afunction(&v);
                                                              printf(%d",v);
int c=0;
printf("%d%d",c++,c);
(a) Undefined (b) 01 (c) 00 (d) 11
                                                              (a) Outputs 12
                                                                                               (b) Outputs 10
                                                              (c) Outputs the address of v
                                                                                               (d) Outputs the value of x
15. What is the maximum value of an unsigned char?
(a) 255
                (b) 256
                                (c) 128
                                                              21. To what value do nonglobal variables default?
                                                              (a) Auto
                                                                               (b) register
                                                                                               (c) static
16. What does the line containing "break;" do in the
following code?
                                                              22. When run on a computer, will a recursive function
void afunction()
                                                              without an end condition ever quit?
                                                              (a)Compiler-Specific (Some compilers can convert these
                                                              functions to infinite loops)
if(1)
                                                              (b) No
                                                                               (c) Yes
                                                                                               (d) none of the above
break;
a function();
                                                              23. How long does the following code run? for(int x=0;
printf("Err");
                                                              x=3; x++)
                                                              (a)Never
                                                                               (b)Three times (c)Forever
(a) Breaks out of the if statement
                                                              24. What value will "strcmp("Astring", "Astring");"
(b) Exits the function (c) Nothing (Compiler error)
                                                              return?
(d) Nothing the function will be normaly executed
                                                              (a) A positive value
                                                                                       (b) A negative value
                                                              (c) Zero
                                                                                       (d) Stremp is not a valid function
17. To what value are pointers initialized?
                (b) Newly allocated memory
(a) NULL
                                                              25. What is the correct value to return to the operating
(c) No action is taken by the compiler to initialize pointers.
                                                              system upon the successful completion of a program?
                                                              (a) -1
                                                                              (b) 1
18. What is the last index number in an array of 100 chars?
                                                              (d) Programs do not return a value.
                (b) 99
                                (c) 101
(a) 100
                                                 (d) 102
19. Which of the following data structures uses the least
memory?
(a) struct astruct
int x;
float y;
int v;
(b) union aunion (ans)
int x;
float v;
(c) char array[10];
                                (d) int arr[20];
20. What does the following code do?
void afunction(int *x)
x=(int *)malloc(sizeof(int));
*x=12:
int main()
int v=10;
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