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```
1. What does the following program print?
                 #include <stio.h>
                 int sum, count;
                 void main(void)
                 {< BR>
                                            for(count=5;sum+=--count;)
                   printf("%d",sum);
    a. The pgm goes to an infinite loop
                                                   b. Prints 4791010974
                                                                                       c. Prints
4791001974
    d. Prints 5802112085
                                                 e. Not sure
2. What is the output of the following program?
                 #include <stdio.h>
                 void main(void)
                   int i; < BR>
                                                  for(i=2;i<=7;i++)
                   printf("%5d",fno());
                 fno()
                   staticintf1=1,f2=1,f3;
                   return(f3=f1+f2,f1=f2,f2=f3);
    a. produce syntax errors
                                        b. 2 3 5 8 13 21 will be displayed
                                                                                    c. 2 2 2 2 2 2
will be displayed
    d. none of the above
                                        e. Not sure
3. What is the output of the following program?
                 #include <stdio.h>
                 void main (void)
                   int x = 0x1234;
                   int y = 0x5678;
                   x = x & 0x5678;
                   y = y \mid 0x1234;
                   x = x^y;
                   printf("%x\t",x);
                   x = x \mid 0x5678;
                   y = y & 0x1234;
                   y = y^x;
                   printf("%x\t",y);
                                           b. bbb7 bbb3
                                                                                     c. 444c 4448
    a. bbb3 bbb7
    d. 4448 444c
                                           e. Not sure
4. What does the following program print?
                 #include <stdio.h>
                 void main (void)
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int x;
                    x = 0;
                    if (x=0)
                    printf ("Value of x is 0");
                    printf ("Value of x is not 0");
     a. print value of x is 0
                                      b. print value of x is not 0
                                                                             c. does not print anything
on the screen
                                                                             e. Not sure
     d. there is a syntax error in the if statement
5. What is the output of the following program?
                  #include <stdio.h>
                  #include <string.h>
                  int foo(char *);
                  void main (void)
                    char arr[100] = {"Welcome to Mistral"};
                    foo (arr);
                  foo (char *x)
                    printf ("%d\t",strlen (x));
                    printf ("%d\t",sizeof(x));
                    return0;
     a. 100 100
                                b. 18 100
                                                        c. 18 18
                                                                               d. 18 2
                                                                                                      e.
Not sure
6. What is the output of the following program?
                  #include <stdio.h>
                  display()
                    printf ("\n Hello World");
                    return 0;
                  void main (void)
                    int (* func_ptr) ();
                    func_ptr = display;
                    printf ("\n %u",func_ptr);
                    (* func_ptr) ();
     a. it prints the address of the function display and prints Hello World on the screen
     b. it prints Hello World two times on the screen
     c. it prints only the address of the fuction display on the screen
     d. there is an error in the program
                                                            e. Not sure
7. What is the output of the following program?
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#include <stdio.h>

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void main (void)
                    int i = 0;
                    char ch = 'A';
                       putchar (ch);
                    while(i++ < 5 \parallel ++ch <= 'F');
     a. ABCDEF will be displayed
                                                                               b. AAAAAABCDEF
will displayed
                                                             d. none
     c. character 'A' will be displayed infinitely
                                                                                  e. Not sure
8. What is the output of the following program?
                 #include <stdio.h>
                  #define sum (a,b,c) a+b+c
                  #define avg (a,b,c) sum(a,b,c)/3
                  #define geq (a,b,c) avg(a,b,c) >= 60
                  #define lee (a,b,c) avg(a,b,c) \le 60
                  #define des (a,b,c,d) (d==1?geq(a,b,c):lee(a,b,c))
                  void main (void)
                    int num = 70;
                    char ch = '0';
                    float f = 2.0;
                    if des(num,ch,f,0) puts ("lee..");
                    else puts("geq...");
                                                                                     c. lee.. will be
     a. syntax error
                                     b. geq... will be displayed
displayed
     d. none
                                     e. Not sure
9. Which of the following statement is correct?
     a. sizeof('*') is equal to sizeof(int)
                                                                                 b. sizeof('*') is equal
to sizeof(char)
     c. sizeof('*') is equal to sizeof(double)
                                                         d. none
                                                                                 e. Not sure
10. What does the following program print?
                  #include <stdio.h>
                  char *rev(int val);
                  void main(void)
                    extern char dec[];
                    printf ("%c", *rev);
                 char *rev (int val)
                    char dec[]="abcde";
                    return dec;
     a. prints abcde
                                                                             b. prints the address of the
```

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array dec c. prints garbage, address of the local variable should not returned d. print a e. Not sure 11. What does the following program print? void main(void) int i; static int k; if(k=='0')printf("one"); else if(k==48) printf("two"); else printf("three"); a. prints one b. prints two c. prints three d. prints one three e. Not sure 12. What does the following program print? #include<stdio.h> void main(void) enum sub chemistry, maths, physics struct result char name[30]; enum sub sc; **}**; struct result my\_res; strcpy (my\_res.name,"Patrick"); my\_res.sc=physics; printf("name: %s\n",my\_res.name); printf("pass in subject: %d\n",my\_res.sc); a. name: Patrick b. name: Patrick c. name: Patrick pass in subject:3 pass in subject:0 pass in subject: 2 e. Not sure d. gives compilation errors 13. What does printf("%s",\_FILE\_); and printf("%d",\_LINE\_); do? a. the first prints the name of the file and the second printf prints the line no: of the second printf in the file b. \_FILE\_ and \_LINE\_ are not valid parameters to printf function c. linker errors will be generated d. compiler errors will be generated e. Not sure

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14. What is the output of the following program?
                 #include <stdio.h>
                 void swap (int x, int y, int t)
                    t = x;
                    x = y;
                    y = t;
                   printf ("x inside swap: %d\t y inside swap: %d\n",x,y);
                 void main(void)
                    int x;
                    int y;
                    int t;
                    x = 99;
                    y = 100;
                    swap (x,y,t);
                    printf ("x inside main: %d\t y inside main: %d",x,y);
a. x inside swap: 100
                       y inside swap: 99
                                            x inside main: 100 y inside main: 99
b. x inside swap : 100
                        y inside swap : 99
                                            x inside main: 99
                                                                  y inside main: 100
c. x inside swap : 99
                        y inside swap: 100 x inside main: 99
                                                                   y inside main: 100
d. x inside swap : 99
                        y inside swap: 100 x inside main: 100 y inside main: 99
e. Not sure
15. Consider the following statements:
          i) " while loop " is top tested loop
                                                       ii) " for loop " is bottom tested loop
         iii) "do - while loop" is top tested loop
                                                       iv) " while loop" and "do - while loop " are
top tested loops.
  Which among the above statements are false?
                            b. i & ii
                                                   c. iii & i
     a. i only
                                                                          d. ii, iii & iv
e. Not sure
16. Consider the following piece of code:
                 char *p = "MISTRAL";
                 printf ("%c\t", *(++p));
                 p = 1;
                 printf ("%c\t", *(p++));
  Now, what does the two printf's display?
     a. MM
                           b. MI
                                                  c. I M
                                                                         d. MS
                                                                                                  e.
Not sure
17. What does the following program print?
                 #include <stdio.h>
                 struct my_struct
                    int p:1;
                    int q:1;
                    int r:6;
```

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int s:2;
                  };
                  struct my_struct bigstruct;
                  struct my_struct1
                    char m:1;
                  struct my_struct1 small struct;
                  void main (void)
                    printf ("%d %d\n",sizeof (bigstruct),sizeof (smallstruct));
     a. 10 1
                           b. 2 2
                                                 c. 2 1
                                                                       d. 1 1
                                                                                             e. Not sure
18. Consider the following piece of code:
                 FILE *fp;
                 fp = fopen("myfile.dat","r");
  Now fp points to
     a. the first character in the file.
     b. a structure which contains a char pointer which points to the first character in the file.
     c. the name of the file.
                                                d. none of the above.
                                                                                             e. Not
sure.
19. What does the following program print?
                 #include <stdio.h>
                  #define SOR (x) (x*x)
                  void main(void)
                    int a,b=3;
                    a = SQR (b+2);
                                                                            d. 21
     a. 25
                            b. 11
                                                   c. 17
                                                                                                   e.
Not sure.
20. What does the declaration do?
                 int (*mist) (void *, void *);
     a. declares mist as a function that takes two void * arguments and returns a pointer to an int.
     b. declares mist as a pointer to a function that has two void * arguments and returns an int.
    c. declares mist as a function that takes two void * arguments and returns an int.
     d. there is a syntax error in the declaration.
                                                                          e. Not sure.
21. What does the following program print?
                  #include <stdio.h>
                  void main (void)
                    int mat [5][5],i,j;
                    int *p;
```

p = & mat [0][0];for (i=0;i<5;i++) Page 7 of 8

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for (j=0;j<5;j++)
                         mat[i][j] = i+j;
                    printf ("%d\t", sizeof(mat)); < BR>
                                                                          i=4; j=5;
                    printf( "%d", *(p+i+j));
     a. 25 9
                                                 c. 50 9
                                                                        d. 50 5
                           b. 25 5
                                                                                               e. Not
sure
22. What is the output of the following program?
                 #include <stdio.h>
                 void main (void)
                    short x = 0x3333;
                    short y = 0x4321;
                    long z = x;
                    z = z << 16;
                    z = z \mid y;
                    printf("%1x\t",z);
                    z = y;
                    z = z >> 16;
                    z = z \mid x;
                    printf("%1x\t",z);
                    z = x;
                    y = x &  y;
                    z = y;
                    printf("%1x\t",z);
                                          b. 33334321
     a. 43213333
                    3333
                                                          4321 4321
                                                                                   c. 33334321
                            1
3333
        1
     d. 43213333 4321
                            4321
                                          e. Not sure
23. What is the output of the following program?
                 #include <stdio.h>
                 void main (void)
                    char *p = "Bangalore";
                    #if 0
                      printf ("%s", p);
                    #endif
     a. syntax error #if cannot be used inside main function
                                                                               b. prints Bangalore on
the screen
     c. does not print anything on the screen
     d. program gives an error "undefined symbol if"
                                                                               e. Not sure
24. If x is declared as an integer, y is declared as float, consider the following expression:
                 y = *(float *)&x;
  Which one of the following statments is true?
     a. the program containing the expression produces compilation errors;
     b. the program containing the expression produces runtime errors;
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c. the program containing the expression compiles and runs without any errors;

d. none of the above

e. Not sure

25. What is the return type of calloc function?

a. int \*

b. void \*

c. no return type: return type is void

d. int

e. Not sure