5.

What will be the output of the program?

uiz 10

```
#include<stdio.h>
int main()
      enum days {MON=-1, TUE, WED=6, THU, FRI, SAT};
printf("%d, %d, %d, %d, %d, %d\n", MON, TUE, WED, THU, FRI, SAT);
      printf("% return 0;
    -1, 0, 1, 2, 3, 4
                                                         B. -1, 2, 6, 3, 4, 5
C. -1, 0, 6, 2, 3, 4
                                                        D. -1, 0, 6, 7, 8, 9
```

```
struct emp
    int ecode:
    struct emp e;
};
```

- Error: in structure declaration
- В. Linker Error
- No Error
- None of above

3.

Point out the error in the program?

The Questions:

Which of the following special symbol allowed in a variable name?

A. \* (asterisk)

B. (pipeln. )

C. - (hyphen)

\_(unde score

2.

What is the similarity between a structure, union and minimarity heration?

- All of them let you define new values
- B. All of them let you define new data "es
- C. All of them let you defre new points a
- D. All of them let you define new structures

What will be the output of the program ?

```
#include<stdio.h>
int main()
    union a
         int i;
         char ch[2];
    union a u;
    u.ch[0]=3;
u.ch[1]=2;
printf("%d, %d, %d\n', u ch[0], u.ch[1], u.i);
     return 0;
}
```

A. 3, 2, 515

B. 515, 2, 3

C. 3, 2, 5

4

D. 515, 515, 4

What will be the "utp", of the , rogram?

```
#include<stdiv.h>
int main()
     union var
         int a, b;
    };
union var v;
    v.b=20;
printf("%d\n", v.a);
     return 0;
A. 10
```



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B. 20

```
7.
```

What is the output of the program given below?

```
#include<stdio.h>
 int main()
         enum status { pass, fail, atkt};
enum status stud1, stud2, stud3;
stud1 = pass;
stud2 = atkt;
stud3 = fail;
printf("%d, %d, %d\n", stud1, stud2, stud3);
return 0;
 }
       0, 1, 2
                                                                                   B. 1, 2, 3
                                                                                  D. 1, 3, 2
C. 0, 2, 1
```

#### What is the output of the program

```
#include<stdio.h>
int main()
      struct emp
            char name[20];
int age;
float sal;
     };
struct emp e = {"Tiger"};
printf("%d, %f\n", e.age, e.sal);
      return 0;
}
```

0, 0.000000

B. Garbage values

Error

D. None of above

9.

Assunming, integer is 2 byte, What will be the output of the program?

```
#include<stdio.h>
int main()
{
    printf("%x\n", -1>>1);
    return 0;
}
   ffff
                                                                           .. هو أنا تلم
   0000
                                            fff0
```

10.

If an unsigned int is 2 bytes wi(e then, ", what will be the output of the program?

```
#include<stdio.h>
int main()
     unsigned int m = 32;
printf("%x\n", m);
              Θ;
}
```

B. 0000

ffdt

100

ddfd

11.

What will be the output of the program?

```
#include<stdio.h>
int main()
      unsigned char i = 0x80;
printf("%d\n", i<<1);
return 0;
A. 0
                                                       B. 256
```

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D. 80

What will be the output of the program?

```
#include<stdio.h>
int main()
{
    int a = 500, b = 100, c;
    if(!a >= 400)
        b = 300;
    c = 200;
    printf("b = %d c = %d\n", b, c);
    return 0;
}
```

A. b = 300 c = 200

B. b = 100 c = garbage

C. b = 300 c = garbage

D. b = 100 c = 200



15.

What will be the output of the program?

```
#include<stdio.h>
int main()
{
    unsigned int i = 65535; /* Assume 2 byte integer*/
    while(i++ != 0)
        printf("%d", ++i);
    printf("\n");
    return 0;
}
```

- A. Infinite loop
- B. 0 1 2 ... 65535
- C. 0 1 2 ... 32767 32766 -32765 -1 0
- No output

16.

What will be the output of the program?

```
#include<stdio.h>
int main()
{
   int x = 3;
   float y = 3.0;
   if(x == y)
        printf("x and y are equal";
   else
        printf("x and y are not equal");
   return 0;
}
```

A. x and y are equal

B. x and y are not equal

C. Unpredictable

D. No output

17.

Point out the error, if r in to fo loop.

```
#includ <std_\.h>
int mail()
{
    int i=\.for(;;)
    {
        printf("%d\n", i++);
        if(i>10)
            break;
    }
    return 0;
}
```

- A. There should be a condition in the for loop
- B. The two semicolons should be dropped
- C. The for loop should be replaced with while loop.
- D. No error



1. Option D

2. Option B

3.

Quiz 10

Answer: Option A

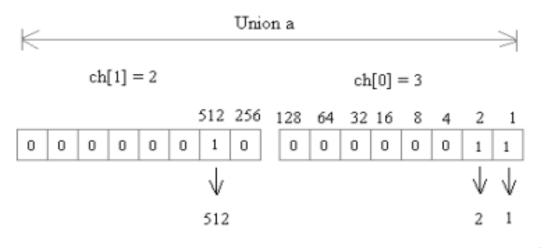
Explanation:

solution

The system will allocate 2 bytes for the union.



The statements u.ch[0]=3; u.ch[1]=2; store data in memory as given below.



So, 
$$512 + 2 + 1 = 515$$
  
 $i = 515$ 

- 4. Option B
- Option D

6.

Answer: Option A

### Explanation:

The structure emp contains a member e of the same (yp).(i.e) struct emp. At this stage compiler does not know the size of structure.

7.

Answer: Option C

#### Explanation:

enum takes the format like {0,1,2...) so pass. \fail=1, atkt=2

stud1 = pass (value is 0)

stud2 = atkt (value is 2)

stud3 = fail (value 1)

Hence it prints 7, 2, 1

8.

Answer: Option A

## Explanation:

When an automatic structure is partially initialized remaining elements are initialized to 0(zero).

```
10. Option C
                                                                              Option B
                                                                              12. Option A
  9.
  Answer: Option A
                                                                              Option D
  Explanation:
  Negative numbers are treated with 2's complement method.
  1's complement: Inverting the bits ( all 1s to 0s and all 0s to 1s)
                                                                              14. Option D
  2's complement: Adding 1 to the result of 1's complement.
                            : 0000 0000 0000 0001
  Binary of 1(2byte)
  Representing -1:
  1s complement of 1(2byte)
                                    : 1111 1111 1111 1110
                                                                              15. Option A
  Adding 1 to 1's comp. result : 1111 1111 1111 1111
  Right shift 1bit(-1>>1): 1111 1111 1111 1111 (carry out 1)
  Hexadecimal
                                                                              Option A
  (Filled with 1s in the left side in the above step)
17.
Answer: Option D
Explanation:
Step 1: for (;;) this statement will go ver at infinite loop.
Step 2: printf("%d\n", i++): "s statement will print the value of variable i and increement
i by 1(one).
Step 3: if (1>10) here, if the va lable i value is greater than 10, then the for loop breaks.
Hence the output of the plogram's
1
2
3
5
```

10