

1.

```
#include<stdio.h>
typedef union testUnion
{
    short int num;
    unsigned char ch[2];
}TESTUNION;

typedef union testUnion TESTUNION;
int main()
{
    TESTUNION ut;

    ut.num=639;
    printf("ut.ch[0]=%d\n", ut.ch[0]+1);
    printf("ut.ch[1]=%d\n", ut.ch[1]-1);

    return 0;
}
```

- A. 127 4
- B. 128 2
- C. 127 2
- D. 128 3
- E. 128 1

Answer: E

2.

```
#include <stdio.h>
int main(void)
{
    FILE *fp = stdout;
    int num=102;

    fprintf(fp, "%d-%c-%d-%c",num,num-32,num+=32,num-=32);
    return 0;
}
```

- A. 102-F-102-f
- B. 102-f-70-F
- C. 70-f-102-F
- D. 70-F-70-f

Answer: A

3.

```
#include<stdio.h>
int main(void)
{
    union result
    {
        short int percentage;
        char grade[2];
    };
    typedef union result RESULTUNION;

    RESULTUNION r1={65.5f+5};

    printf("%d\t",r1.grade[1]-r1.grade[0] );
    printf("%c\n",r1.grade[0]+ ' ');

    return 0;
}
```

- A. -70 f
- B. -70 F
- C. 70 f
- D. 70 F
- E. garbage value garbage value

Answer: A

4.

```
#include<stdio.h>
#define SIZE 10
#pragma pack(1)

struct
{
    char ca[10];
    union u
    {
        int i;
        char c;
        long l;
        double d;
    }u1[SIZE];
}s1[SIZE];

int main(void)
{
    printf("%d ", sizeof(s1) + sizeof(s1[0].u1));
    return 0;
}
```

- A. 980
- B. 908
- C. 98
- D. 90
- E. Error

Answer: A

5.

if sunbeam.txt file contents [0123456789] data in file what will be output ?

```
#include <stdio.h>
int main(void)
{
    FILE *fpRead=NULL;
    char ch;
    int sum=0;

    fpRead = fopen("sunbeam.txt", "r");

    while((ch=fgetc(fpRead))!= EOF)
        sum+= ch;

    printf("\n%d", sum);

    return 0;
}
```

- A. 525
- B. 45
- C. 55
- D. Error
- E. 450

Answer: A