

```
1.
#include <stdio.h>
struct test
{
    int data;
};
int main(void)
{
    struct test s1;
    s1.data=100;
    return 0;
}
```

If structure is declared as follows & if i want to print value of data on console. which of the following printf statements are valid

1. printf("%d",\*(&s1.data));
2. printf("%d",s1.data);
3. printf("%d",\*(&s1));
4. printf("%d",s1);

- A. Only 2  
B. Both 1 and 2  
C. 1 2 and 3  
D. All of above

Answers: D

```
2.
#include<stdio.h>
struct s2
{
    char *cp;
    struct s1
    {
        char a[4];
        char *p;
    }o1;
}o2 = {"DAC", "DESD", "DMC"};
```

```
int main(void)
{
    printf("%s %s\n", ++o2.cp, ++o2.o1.p);
    return 0;
}
```

- A. AC MC
- B. AC ESD
- C. MC AC
- D. ESD MC

Answer: A

```
3.
#include<stdio.h>
struct s1
{
    char a[4];
    char *p;
}o = {"DAC", "DITISS"};
```

```
int main(void)
{
    o.p = o.a+1;

    printf("%c %s\n", *o.p, o.a);

    return 0;
}
```

- A. I DAC
- B. A DAC
- C. A DITISS
- D. I DITISS

Answer: B

```
4.
#include<stdio.h>
struct emp
{
    int empno;
    char name[10];
    float sal;
};
void accept_emp_info(struct emp e);
int main(void)
{
    struct emp e1;
    printf("\n Enter employee infomation = \n");
    accept_emp_info(e1);
    printf("\n EmpNo Name Sal\n");
    printf("%-8d%-10s%-6.2f", e1.empno, e1.name, e1.sal);
    return 0;
}
void accept_emp_info(struct emp e)
{
    printf("\n Enter Emp No=");
    scanf("%d", &e.empno);
    printf("\n Enter Emp Name=");
    scanf("%s", e.name);
    printf("\n Enter Emp sal=");
    scanf("%f", &e.sal);
    return ;
}
```

what will be the output of program if we give this input?  
empno=101 , name ="abcd" , sal=10000.

- A. 101 abcd 10000
- B. 0 NULL 0.000000
- C. all three garbage values
- D. 0 0 0.000000

Answer: C

```
5.
#include<stdio.h>
#pragma pack(1)
struct emp
{
    int empno;
    char name[10];
    float sal;
};
struct emp accept_emp_info(void);
int main(void)
{
    struct emp e1;
    printf("\n Enter employee infomation = \n");
    e1=accept_emp_info();
    printf("\n EmpNo Name Sal \n");
    printf("%-8d%-10s%-6.2f", e1.empno, e1.name, e1.sal);
    return 0;
}
struct emp accept_emp_info()
{
    struct emp e;
    printf("\n Enter Emp No=");
    scanf("%d", &e.empno);
    printf("\n Enter Emp Name=");
    scanf("%s", e.name);
    printf("\n Enter Emp sal=");
    scanf("%f", &e.sal);
    return e;
}
```

what will be the output of program if we give this input?  
empno=101 , name ="abcd" , sal=10000.

- A. 101 abcd 10000
- B. 0 NULL 0.000000
- C. all three garbage values
- D. 0 0 0.000000

Answer: A