

1.

```
#include<stdio.h>
int main(void)
{
    struct s
    {
        char *p;
        int i;
        struct s *sp;
    }a[] = {"abcd",1,a+1,"efgh",2,a+2,"ijkl",3,a}, *p;
    p = a;
    printf("%s %s %s\n",a[0].p,p->p,a[2].sp->p);
    return 0;
}
```

- A. abcd abcd ijkl
- B. abcd efgh ijkl
- C. abcd abcd efgh
- D. abcd abcd abcd

Answer: D

2.

```
#include <stdio.h>
struct course
{
    int capacity;
    char coursenam[10];
};
int main (void)
{
    struct course arr[] = { {240, "DAC Pune"},
                             {120, "KDAC Karad"},
                             {60, "DBDA"},{120, "DESD"},
                             {120, "DMC"},{60, "DITISS"},};

    printf("%d, %d",arr[2].capacity, ( *( arr + 2)).capacity);
    return 0;
}
```

- A. 60, ASCII value of D
- B. 60, 60
- C. 60, ASCII value of K
- D. 120, ASCII value of K

Answer: B

3.

```
#include<stdio.h>
typedef struct p *q;
struct p
{
    int x;
    char y;
    q ptr;
};
int main(void)
{
    struct p p = {1, 65, &p};
    printf("p.ptr->x =%d \t p.ptr->y =%c",p.ptr->x,p.ptr->y);
    return 0;
}
```

- A. Compile time error
- B. p.ptr->x = 1  
p.ptr->y = A
- C. p.ptr->x = 1  
p.ptr->y = 65
- D. p.ptr->x = Address of p  
p.ptr->y = Address of p

Answer: B

4.

```
#include <stdio.h>
int main(void)
{
    struct test1
    {
        char name[15]; char *ptr;
    };
    struct test2
    {
        char *c ; struct test1 t1 ;
    };
    struct test2 t2 = {"Pune","Hinjawadi","Karad"};

    printf("%s%s\n",t2.c,t2.t1.ptr);
    printf("%s%s\n",++t2.c,++t2.t1.ptr);

    return 0;
}
```

- A. PuneKarad  
unearad
- B. PuneKarad  
PuneKarad
- C. PuneKarad  
Garbage
- D. Compile time Error

Answer: A

5.

```
#include <stdio.h>
#include <string.h>
```

```
struct
```

```
{
    unsigned int age : 2;
}Age;
```

```
int main(void )
```

```
{
    Age.age = 3;
    printf( "Age.age : %d ", Age.age );

    Age.age = 4;
    printf( "updated Age.age : %d\n", Age.age );

    return 0;
}
```

- A. Age.age:3 updated Age.age:4
- B. Age.age:0 updated Age.age:0
- C. Age.age:3 updated Age.age:0
- D. Age.age:3 updated Age.age:3

Answer: C