

Roll No.:

Name:

Maximum Marks:20

Each of the following codes is a part of a C program. Write down the output.

Q 1. `int i,*p,*q,a[6]={1,3,4,6,7};` [5]

```
p=a-2;
q=a+7;
for(i=2;i<=5;i+=2)
{
*(p+i)=i*i-2;
q[-i]=i*i*i;
}
for(i=0;i<6;i++)
{
printf("%d ",a[i]);
}
printf("\n");
```

Answer:

Q 2. `struct da1` [5]

```
{int a;
int *b;
};
struct da2
{int a;
struct da1 *b;
};
struct da2 *p,q;
struct da1 r;
int i=5,j=9;
r.b = &i;
i +=2;
r.a=7*(*(r.b));
q.b=&r;
q.a=7*i;
p=&q;
printf("%d %d\n",*(p->b->b),p->b->a);
(p->b)->b=&j;
*(r.b)=19;
printf("%d %d %d\n",i,j,*(p->b->b));
```

Answer:

Q 3. `int a[3][4],i,j,*p;`

[10]

```
char *q,b[10]="C Quiz";
```

```
q=b+1;
```

```
*q='A';
```

```
printf("%s\n",b);
```

```
printf("%s\n",q);
```

```
printf("%d %d %c %c\n",q[-1]-*q,b[5]-q[2],*b+2,q[2]-2);
```

```
for(i=0;i<3;i++)
```

```
{
```

```
for(j=0;j<4;j++)
```

```
{
```

```
a[i][j]=i+j+4;
```

```
}
```

```
}
```

```
printf("%d %d %d\n",*a[1]+3,*(a[1]+3),*((*a+7)-4));
```

```
p=a[1]-3;
```

```
for(j=1;j<4;j++)
```

```
{
```

```
p[j+1]=a[1][j]+6;
```

```
}
```

```
printf("%d %d %d\n",*a[1]+3,*(a[1]+3),*((*a+7)-4));
```

Answer: