

708(22)

Model test paper (IIIrd test)

1.) WAP for call by value ~~and~~ or call by reference.

```
⇒ #include <stdio.h>
```

```
#include <conio.h>
```

```
int swap (int a, int b);
```

```
main ()
```

```
{
```

```
int a, b;
```

```
printf ("Enter the value of a, b");
```

```
scanf ("%d %d", &a, &b);
```

```
swap (a, b);
```

```
getch ();
```

```
}
```

```
int x, y;
```

```
printf ("Enter the value of x, y");
```

```
int swap (x, y);
```

```
int z;
```

```
x = y;
```

```
y = z;
```

```
z = x;
```

```
printf ("%d %d", &x, &y);
```

```
}
```

2.)

```
⇒ #include <stdio.h>
```

```
#include <conio.h>
```

```
void main ()
```

```
{  
    int a[i][j], b[i][j], m, n, i, j;
```

```
    printf (" \n Enter number of rows and columns of array : ");
```

```
    scanf ("%d %d", &m, &n);
```

```
    printf (" \n Enter elements of 2-D array : \n");
```

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

```
    {  
        for (j=0; j<n; j++)
```

```
        {  
            scanf ("%d", &a[i][j]);
```

```
        }
```

```
    }  
    printf (" \n 2-D array before transposing : \n");
```

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

```
    {  
        for (j=0; j<n; j++)
```

```
        {  
            printf ("%d ", a[i][j]);
```

```
        }
```

```
        printf (" \n");
```

```
    }
```

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

```
    {  
        for (j=0; j<n; j++)
```

```
        {  
            b[j][i] = a[i][j]
```

```
        }
```

```
    }  
    printf (" \n 2-D after transposing : \n");
```

```

for (i=0; i<n; i++)
    for (j=0; j<m; j++)
        printf ("%d\t", b[i][j]);
    printf ("\n");
}
getch();
}

```

3.)

```

⇒ #include <stdio.h>
#include <conio.h>
void main ()
{
    int a[3][3], b[3][3], c[3][3], i, j, k, sum;
    clrscr();
    printf ("Enter the first array: \n");
    for (i=0; i<3; i++)
        for (j=0; j<3; j++)
            scanf ("%d", &a[i][j]);
    printf ("Enter the second array: \n");
    for (i=0; i<3; i++)
        for (j=0; j<3; j++)
            scanf ("%d", &b[i][j]);
    sum = 0;
    for (j=0; j<3; j++)

```

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

```
    sum = sum + a[i][k] * b[k][j];
```

```
    c[i][j] = sum;
```

```
    }
```

```
class U;
```

```
printf (" \n First array : \n");
```

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

```
{
```

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

```
        printf (" %.d \t", a[i][j]);
```

```
        printf (" \n");
```

```
}
```

```
printf (" \n Second array : \n");
```

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

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

```
    printf (" %.d \t", b[i][j]);
```

```
    printf (" \n");
```

```
}
```

```
printf (" Third array : \n");
```

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

```
{
```

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

```
        printf (" %.d \t", c[i][j]);
```

```
        printf (" \n");
```

```
}
```

```
getch();
```

```
}
```