

Graphic Era Hill University, Dehradun
(Answer Sheet for Online Examination Aug. 2021)

Please tick (✓) your campus: (DEHRADUN/BHIMTAL/HALDWANI)

Name: Deepak Kumar Sharma Univ. Roll No. 2022052 Student ID 20131069
Date: 27/08/21 Course: BSC 2.T Branch: Dehradun Sem.: II Section: B
Subject Name: Operating Systems: English Subject Code: BR1202 Page No. (1)

Q.1

```
#include <stdio.h>
int main ()
{
    printf("In/t/t/memory management " " -
    universit\n");
    int i, j, nblocks, nfiles, temp, top = 0;
    int free[10], blocks[10], files[10];
    static int block-arr[10], file-arr[10];
    printf("Enter the total Number " " of blocks");
    scanf ("%d", &nblocks);
    printf("Enter the total Number " " of files");
    scanf ("%d", &nfiles);
    printf("Enter the size of the " " Blocks: \n");
    for (i = 0; i < nblocks; i++)
    {
        printf("Block No. %d: \n", i + 1);
        scanf ("%d", &blocks[i]);
    }
    printf("Enter the size of the " " Files: \n");
    for (i = 0; i < nfiles; i++)
    {
        printf("File No. %d: \n", i + 1);
        scanf ("%d", &files[i]);
    }
    for (i = 0; i < nfiles; i++)
    {
        for (j = 0; j < nblocks; j++)
        {
```

Signature of Student

②
Deepak
Sharma

```
{  
if (block - arr[i] - files[i]);
```

```
if temp >= 0)
```

```
{  
if (top < temp)
```

```
{  
file_arr[i] = j;
```

```
top = temp;
```

```
}
```

```
}
```

```
}
```

```
frag[i] = top;
```

```
block - arr[file_arr[i]] = 1;
```

```
top = 0
```

```
}
```

```
}
```

```
printf ("In file Number \t file size \t " "Block Number \t Block  
size \t fragment");
```

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

```
{
```

```
printf ("In %d \t %d \t %d \t %d \t %d", i, files[i],  
files_arr[i], blocks[file_arr[i]], frag[i]);
```

```
printf ("In");
```

```
return 0;
```

```
}
```